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Ad Hoc International Meeting of Regulatory
Officials on Alignment of Noise Test Procedures
Held at Washington, DC on December 9-12, 1980

(U.S.) Environmental Protection Agency
Washington, DC

30 Apr 81



U.S. Department of Commerce
National Technical Information Service

NTIS

AD HOC

INTERNATIONAL MEETING

OF REGULATORY OFFICIALS

ON ALIGNMENT OF

NOISE TEST

PROCEDURES

DECEMBER 9-12, 1980

NATIONAL REGULATORY SITUATIONS AND REGULATIONS

CONCERNING NOISE SOURCE EMISSIONS

REVISED APRIL 30, 1981

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PERFORMER: Environmental Protection Agency, Washington,
DC.

The information is presented in six product categories:
Construction Equipment, Domestic Appliances, Miscellaneous,
Railroads, Motor Vehicles, and Aircraft. For each category,
two charts are presented. The first identified the specific
products within the category, and the status (existing,
under development, or anticipated) of regulation
development, by country. The second chart presented detailed
information on the regulations on a product by product
basis.

KEYWORDS: *Noise pollution, *Meetings.

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AD HOC INTERNATIONAL MEETING OF
REGULATORY OFFICIALS ON ALIGNMENT
OF NOISE TEST PROCEDURES

DECEMBER 9 - 12, 1980

NATIONAL REGULATORY SITUATIONS

AND

REGULATIONS CONCERNING

NOISE SOURCE EMISSIONS

REVISED
APRIL 30, 1981

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FOREWORD

This Compendium was prepared by the U.S. Environmental Protection Agency, who served as Secretariat and host for the first Ad Hoc International Meeting of Regulatory Officials on Alignment of Noise Test Procedures held in Washington, D.C., December 9-12, 1980.

The Commission of European Communities has offered to serve as the Secretariat for a subsequent Ad Hoc Meeting to be held in 1981.

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INTRODUCTION

In May of 1980, the Organization for Economic Cooperation and Development (OECD) held a Conference on noise in Paris. This Conference was the first international meeting ever held on noise abatement policy. One of the topics discussed was the need for major new efforts in the international harmonization of noise measurement procedures that are used for regulatory purposes.

In a statement to the Conference, Ms. Barabara Blum, the Head of the United States Delegation, stated, in part, that:

"...we believe there is no more important goal before all of us here than to harmonize noise measurement procedures...We believe that such harmonization, as important as it is today, will only grow in significance in the immediate years ahead...This Conference has dramatically illustrated the fact that other Nations share the concerns of the United States. Several international organizations continue to do the majority of work in harmonization of measurement procedures. These organizations must continue their excellent efforts. However, there are a number of specific policy questions which, as the discussions in this Conference point out, need to be resolved to speed up the harmonization work underway in the ECE, ISO, and IEC."

Ms. Blum then proposed that officials who had policy responsibility for adoption of appropriate noise measurement procedures for regulatory purposes in their respective countries, meet on an ad hoc basis in 1980. The United States offered to host the meeting and asked that a steering group be formed of interested governmental parties to draw up the agenda for that meeting and to prepare the necessary technical work.

The apparent interest on the part of political leaders to explore possible international harmonization of noise measurement procedures specified in product noise regulations may be attributed, in part, to the following circumstances:

(1) Preparation for the OECD Conference was quite extensive. All participating countries demonstrated a strong desire to make a very positive commitment to reductions in a range of product noise emission levels, with particular emphasis on motor vehicles. In trying to arrive at what those levels should be, the differences in measurement procedures became significantly apparent. The conclusion was reached that there were substantial uncertainties which had not been previously recognized in translating between measurement procedures used by various governmental bodies in regulating product noise. It became apparent that before levels could be compared, it was necessary to have common, or technically aligned, noise measurement procedures.

(2) A number of countries are actively moving to regulate the noise emissions of a wide variety of products. Some of them have already completed product regulations in the areas of motor vehicles, construction equipment, domestic products, and the labeling of products as to their noise reduction or noise emission levels. As the number of regulations increases, the potential for non-alignment of measurement procedures also increases.

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(3) The Multilateral Trade Negotiations were ratified in Geneva in April of 1979. Countries are now committed to work for the elimination of technical barriers to trade among themselves. Although noise emission limits are enforced for a very important purpose--namely to protect people from excessive noise--they could become non-tariff barriers to trade. This is particularly true if manufacturers who design equipment to meet regulatory limits under one measurement procedure can not tell generally how that equipment would perform under other required measurement procedures without further elaborate testing at additional costs. Such technical barriers to trade and their attendant economic implications not only unnecessarily increase manufacturing costs for no increased environmental benefits, but they may result in governments not adopting noise emission limits until potential conflicts resulting from differing test methods and compliance schemes are resolved.

The delegates at the OECD Conference, while committing to take active steps toward international harmonization of measurement procedures in the noise area, did not reach any specific agreement about what the next steps would be to implement this commitment. In the case of motor vehicles, where Working Party WP/29/ECE had been very active, the feeling was that the continuation of past activities might well be sufficient to meet the commitment made by political leaders at the OECD Conference. But in the case of labeling of domestic products and controlling noise of construction equipment, this was not the case. There is no organized effort even to identify problems of harmonization in these other areas. Yet countries are aggressively regulating these products. Continuation of these past practices would not, in any way, be consistent with the OECD commitment to further international harmonization. Consequently, the United States proposed, and delegates of major countries at the Conference agreed in principle and philosophy, that an Ad Hoc Consultation should be held as soon as possible.

A Steering Committee was formed that consisted of representatives from Belgium, Denmark, The Federal Republic of Germany, Finland, France, Italy, Japan, Luxembourg, The Netherlands, the Republic of Ireland, Sweden, the United Kingdom, the United States, and the Commission of European Communities. It became evident that three major elements had to be considered in order to put the commitment to international harmonization into practical and operational terms. They were:

- (1) Identification of noise measurement harmonization problems in all areas in which countries were actively regulating or anticipating future regulations.
- (2) Agreement on the order of priorities among identified problems; which ones should receive attention first.
- (3) Agreement on the most appropriate fora to use for the resolution of these problems.

In October of 1980, the Secretariat, on behalf of the Steering Committee for the Ad Hoc Consultation, sent a questionnaire to all countries that had been invited to participate in the December 9-12, 1980, Ad Hoc Consultation in Washington, D.C. The purpose of the questionnaire (a copy of the questionnaire follows this Introduction) was to collect information on product noise regulations and measuring procedures required by national legislation, either

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existing, under development, or anticipated within five years. This information would then form the basis for review and discussion of the need for international alignment.

A draft Compendium of National Regulatory Actions was prepared from responses to the questionnaire. The information was presented in six product categories: Construction Equipment, Domestic Appliances, Miscellaneous, Railroads, Motor Vehicles, and Aircraft. For each category, two charts were presented. The first identified the specific products within the category, and the status (existing, under development, or anticipated) of regulation development, by country. The second chart presented detailed information on the regulations on a product by product basis.

The draft Compendium was given to each participant at the December 1980 Ad Hoc Consultation. The information in it was discussed, and in some cases errors or omissions were corrected at that time. All participating countries were requested by the Secretariat to review the Compendium and to provide information on any further additions, deletions, or corrections by January 31, 1981.

This Compendium represents a compilation of all material received by the Secretariat as of April 30, 1981, and includes all corrections requested by the participating countries.

AD HOC INTERNATIONAL MEETING OF
REGULATORY OFFICIALS ON ALIGNMENT
OF NOISE TEST PROCEDURES

Regulatory Information Summary

Please provide information on noise measuring procedures required by your national legislation, or by bodies requiring noise measurement procedures under authority given by legislation (examples include industrial insurance institutes established by

legislation, bodies operating national certification and approval systems, and bodies producing official lists showing acoustical properties of machines and other appliances). Please provide information of the type listed below.

1. Title of Regulation

2. Type of Regulation

- a. New product emission regulation
- b. In-use emission regulations for specific products
- c. New noise attenuating products
- d. General environmental emission regulation

3. Applicability

- a. Name(s) of products addressed by regulation:
- b. Categories, subcategories (i.e., power, weight, size, load handling capabilities, etc.), if specified:

4. Status

- a. Existing
- b. Under development
- c. Anticipated in near future (within 5 years)

5. Regulatory Levels and Effective Dates

- a. Product name(s), categories, subcategories, or other distinctive differences
- b. Levels and effective dates
- c. How are levels stated (maximum, not-to-exceed, average, etc.)?
- d. What acoustic descriptor is used (A-weighted sound pressure level, octave-band sound pressure levels, overall sound power level, etc.)?
- e. What, if any, tolerances are permitted in determining product compliance?

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6. Required Noise Test Method
 - a. If ISO procedure, please identify.
 - b. If modified ISO procedure, please state modifications and reason/rationale for modification.
 - c. If national test procedure, please describe test and basis for its selection.
7. If test method is not ISO, what actions were taken to determine comparability to ISO and/or other national test methods?
8. Did administrative considerations govern the selection of the test procedure? If so, please list major considerations.
9. Did enforcement and/or conformity checks govern the selection of the test procedure? If so, please list major considerations.
10. Please list the major requirements of the national administrative, enforcement and/or conformity test requirements; for EEC directives, please present your national program.
11. Additional Comments

IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,
OR IS ANTICIPATED WITHIN FIVE YEARS

Product :	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Construction Equipment			
General Construction Equipment	Japan, France, Vienna, Some Swiss Cantons, EEC, Chicago, W. Germany, Mexico	Netherlands, Switzerland, EEC	Netherlands, United Kingdom, Canada, Denmark, Switzerland
Tower Cranes	West Germany, France	EEC	Denmark
Pavement Breakers	Paris, W. Germany, Vienna, United States, Some Swiss Cantons, France	EEC, United States, Switzerland	Denmark
Power Generators	France	EEC, Netherlands	Denmark
Air Compressors	United States, Norway, W. Germany, Some Swiss Cantons, France	EEC, Netherlands, Switzerland	Denmark, Sweden
Tracked Loaders	W. Germany, United States, France	United States, EEC, Switzerland	Netherlands, Denmark, Sweden
Tracked Dozers	W. Germany, United States, France	United States, Norway, EEC, Switzerland	Netherlands, Denmark, Sweden
Wheel Loaders	W. Germany, United States, Switzerland, France	United States, Norway, EEC, Switzerland	Netherlands, Denmark, Sweden
Welding Generators	France	Netherlands, EEC	
Pneumatic Hammers	W. Germany	Netherlands, Switzerland	
Dumpers	France, Switzerland	Norway, Switzerland	
Crawler Tractors & Wheel Tractors	Switzerland, France	United States, EEC, Switzerland	Denmark
Small 1-Axis Tractors	Switzerland		

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

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IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,
OR IS ANTICIPATED WITHIN FIVE YEARS

Product : Construction Equipment	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Concrete Pumps	W. Germany, France		
Concrete Mixers	W. Germany, France		
Truck Mixers	W. Germany		
Excavators	W. Germany, France	Norway, EEC	Netherlands
Soil Compactors	France	W. Germany	
Pile Drivers			W. Germany
Earth Moving Machinery	Tasmania		
Wheelbarrow		EEC	
Mortar Spreaders	France		
Levelers	France		
Cranes	France		
Rammers	France		
Backhoes	France		
Finishers	France		
Motor-driven Pumps	France		
Cable Layers	France		

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IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,
OR IS ANTICIPATED WITHIN FIVE YEARS

Product:	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Construction Equipment			
Powered Roller	France		
Vibrators	France		
Cutters	France		
Earth Leveling Equipment	France		
Internal Combustion Engines Capable of Being Used on Construction Equipment	France		

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SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM General Construction Equipment

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Netherlands	Includes: Loaders Dozers Excavators	Anticipated	Statistical max.	0	NTE		Based on Work Cycle					Type Approval		Labeling Program under development for some products
					LWA	EBC as in Directive 79/113/ EEC								
Japan	Construction works using: Pile drivers & Pile extractors Riveting hammer Rock drills Air Compressors Batching plants Asphalt plants	11/27/68	85		L _A	National Procedure		30 m from Boundary of Work Site				Prefectural Governors designate regulation areas; builders must file reports in advance and may be recom- mended or ordered that noise abatement measures be improved		The regulation applies to construc- tion works, not equipment.
			80		L _A									
			75		L _A									
			75		L _A									
			75		L _A									
Mexico	General Measurement Methodology	1/2/76			L _A	NOM AA/43	Typical Working Conditions							

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SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM General Construction Equipment

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Austria (Vienna)	General Equip.		100		L _A			1 m						
Switzerland	Not yet decided, probably: Air Compressors Rock drills Pavement Bktn. Dumpers Bulldozers Loaders Wheel tractors Excavators	Under de- velopment, probably 1983, or later	Will be set later, under develop- ment	0	L _A (FAST)	National Test Pro- cedure	Max gov- erned engine speed, or max power, no load, pavement breakers work against dumped steel plate	FFRP 7 m 4 microphones, 0.05 m height	Type test by Govern- ment Laboratory (2 production verifica- tion checks by Govern- ment lab possible)			National Type Approval and Emission Conformity checks after sales by local authorities		Test method chosen based on simplicity, re- producibility, and possibility for subsequent control measurements
Cantons: Zurich, Aargau			85/80		L _A			7 m						Regulation will be replaced by National regula- tion (see above)
U. K.	Pavement bkn. Compressors Cranes Power Supplies Bulldozers Loaders Excavators	Anticipated			L _{WA}	Proposed EEC								

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SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM General Construction Equipment

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Canada	To include all Mobile Power Const. Eqpt.	Anticipated			L_A (FAST) NTE	IEC651 SAE J88a								
EEC	General Measure- ment Methodol- ogy	6/19/80		NIL	L_{WA} (SLOW)	Council Directive 79/113/ EEC of 12/19/78	4m, 10m, or 16m hemisphere radius de- pending on dimension of source							Measurement pro- cedure ISO4872 published in O.J. No. L33 of 2/8/79
United States (Chicago)	Such as: scrapers, pavement breakers, compactors, crawler tractors, dozers, to- tary drills, augers, loaders, power shovels, cranes, derricks, motorgraders, paving ma- chines, off- highway trucks, ditchers, trenchers, compactors, magons, pneu- matic power- ed equipment	1/17/80	80		L_A	S&G J952 J184		15.2m				Can't sell if in excess of level		

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SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM General Construction Equipment

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	General measurement methodology	1970			L _A (10m) L _A , max (FAST) reference distance 10m	National Test Procedure (at least 4 points)	Typical work condition	7m (from contour)						
France	< 147 kw	4/11/72	80	0	LpA			7m				Type Approval		
	≥ 147 < 221 kw	5/5/75	83	0	LpA	4 points	Stationary	7m						
	≥ 221 < 368 kw	5/5/75	87	0	LpA		Max speed	7m						
	≥ 368 kw	5/5/75	90	0	LpA			7m						

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SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Tower Cranes

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
EEC Proposal	All		108	NIL	L_{WA}	Council Directive 79/113/ EEC of 12/19/78	Under typical raising & lowering work cycles		Type Approval			Type approval with random compliance checks		Proposed & Before the Council of Ministers Published in O.J. No. C54 of 3/8/76
			103											
West Germany	All	1974	80		$L'_{A,max}$ (FAST)	Nat'l test procedure (5 points)	Typical work con- dition (max. noise emission)	1m from contour						Low-noise emission product at 5 dBA lower level
			75											
France	Same	1977	80		Same	Same	Same	Same				Type Approval		Same
			83											
	<147 kw >147 <221 kw >221 <368 kw >368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80	0	LpA	4 points	Stationary Max speed	7m						
			83	0	LpA			7m						
			87	0	LpA			7m						
			90	0	LpA			7m						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Pavement Breakers**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
Austria (Vienna)			100		dBA			1 m						Vienna only
Switzerland		Estimated 1983/84	Not yet decided	0	L _A	National Test Pro- cedure	Max gov- erned engine speed, or max power, no load, pavement breakers work against damped steel plate	FFRP 7 m 4 microphones, 0.05 m height	Type test by Gov- ernment laboratory (2 production verification checks by government lab possible)			National Type Approval and Endorse- ment Conformity checks after sales by local authorities		Test method chosen based on simplicity, re- producibility, and possibility for subsequent control measurements
Cantons: Zurich, Aargau	<50 kg >50 kg	1968(Zurich) 1972(Aargau)	80 85		L _A			7 m				No certification, only emission conformity checks by local authorities		Will be replaced by National Regulation
USA *			90	8 hrs. max exposure	L _A			At Operator Position						OSHA Reg.
			75		L _A			15 m						GSA Reg.
	By Weight	Estimated 85 - 86			L _A			7 m	See Compli- ance	Same as Domestic	Does not Apply	Product Verification & Industry Audits		EPA Reg.

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

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SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Pavement Breakers

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
EEC proposal	< 20 kg		107	NIL	L _{WA}	Council Directive 79/113/EEC on test of 12/19/78 block	Weighted & mounted on test block	5 mikes at 1 m, averaged level	Type Approval			Type Approval with random compli- ance checks		Proposed & be- fore the Council of Ministers Published in O.J. No.: C82 of 4/14/75
	20 ≤ 35 kg		110											
	> 35 kg		113											
West Germany	≤ 20 kg 20 kg - 35 kg > 35 kg	1976	84 87 90		L _A (10m)	see General Methodol- ogy	Typical work condition	7 m						Low noise emission product at 5 dBA lower levels
	≤ 20 kg 20 kg - 35 kg > 35 kg	1980	79 82 87		Same	Same	Same	Same						Same
	< 20 kg ≥ 20 ≤ 35 kg > 35 kg	11/4/75	112 115	0 0	L _{WA}	On a tool- holding block		5 points at 1 m				Type Approval		
France														

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SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Power Generators

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Netherlands					L _{WA}	EEC						Type Approval		Under Develop- ment
EEC Proposal	< 84 kW		103	NIL	L _{WA}	Council Directive 79/113/EEC of 12/19/78	¾ Rated Load Capacity	4, 10, or 15 m radius Hemisphère depending on source dimen- sions N.B. 12 microphones with 15 m radius 8 microphones only are used.	Type Approval			Type Approval with random compliance checks		Proposed & Before the Council of Ministers, Pub- lished in O.J. No.: C54 of 3/8/76
	> 84 kW		95											
	≤ 60 kW		103											
	> 60 kW		98											
	≤ 240 kW		105											
	> 240 kW		100											
	> 240 kW		107											
			102											

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SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Power Generators

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptive and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	> 8 - ≤ 125	1/1/76	85	0	LpA		% full power	5 points at 1 m, 4 points at 1 m, number varies depending on dimensions of generator				Type Approval		
	≤ 8 kW	1/1/76	80	0	LpA									
	> 125	1/1/76	85	0	LpA									

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SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Air Compressors

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Netherlands	Flow rate				L _A NTE							Type Approval		Under development
U.S.A.			90	8 hr. max. exposure	L _A		At Oper- ators Position							CSHA Reg.
			75		L _A			15 m						CSA Reg.
	75-250 cfm >250 cfm	Jan/78 July/78	76 76		L _A MAX NTE	EPA	Designed full speed	5 miles 7 m				PV Reports & Selected Audit		EPA Reg.
Sweden		Anticipated												
Norway					A-weighted ISO Bel max 4872- 1978									International Recognized Methods Required

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SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Air Compressors

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	$< 5 \text{ m}^3/\text{min}$ $5 \text{ m}^3/\text{min} -$ $10 \text{ m}^3/\text{min}$ $> 10 \text{ m}^3/\text{min}$	1972	81 83 86		L_A (10m)	National test pro- cedure (8 points)	Typical work condition	7 m						High-side levels lower by 6 dBA; low noise emission product at 5 dBA lower levels
	$< 5 \text{ m}^3/\text{min}$ $5 \text{ m}^3/\text{min} -$ $10 \text{ m}^3/\text{min}$ $> 10 \text{ m}^3/\text{min}$	1975	76 78 81		Same	Same	Same	Same						Same
Switzerland	Flow Rate	Estimated 1983/84	Not yet decided	0	L_A	National Test Pro- cedure	Max gov- erned engine speed, or max power no load	FFRP 7 m 4 microphones, 0.05 m height	Type test by Government labora- tory (2 production verification checks by government lab possible)			National Type Approval and Emission Conformity Checks after sales by local authorities		Test method chosen based on simplicity, re- producibility, and possibility for subsequent control measurements
	Flow Rate $< 10 \text{ m}^3/\text{min}$ $> 10 \text{ m}^3/\text{min}$	1969 (Zurich) 80 1972 (Aargau) 85		0	L_A			7 m				No certification, only emission conformity checks by local authorities		Will be replaced by National Regulation
Cantons: Zurich, Aargau														

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Air Compressors**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
EEC Proposal	$\leq 1 \text{ m}^3/\text{min}$ $1 - 10 \text{ m}^3/\text{min}$ $10 - 30 \text{ m}^3/\text{min}$ $> 30 \text{ m}^3/\text{min}$		102 95 100 95 104 99 106 101	NIL	L _{WA}	Council Directive 79/113/EEC of 12/19/74	Nominal speed and pressure	4 m, 10 m, or 15 m radius hemisphere depending on dimension of source	Type Approval			Type Approval with random compliance checks		Proposed and before the Council of Ministers Published in O.J. No. C94 of 4/19/78
France	All classes	4/11/72	85	0	L _{pA}	5 points	On load	1 m						Type Approval

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
Tracked Loaders

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	≤ 110 kw > 110 kw	1973	87 90		L _A (10m)	National test pro- cedure (2 points)	Typical work cycle	10 m (esp., 16 or 20m)						High-idle levels lower by 1 dBA (8 points at 7 m); low- noise emission product at 5 dBA lower levels
	≤ 110 kw > 110 kw	1977	83 86		Same	Same	Same	Same						High-idle levels lower by 2 dBA (8 points at 7 m); low- noise emission product at 5 dBA lower levels
U.S.A. *			90	8 hr. max. exposure	L _A		At Oper- ators Position							OSHA Reg.
			75		L _A L _A			15 m						GSA Reg. EPA Reg.
Sweden		Estimate 85 Anticipated				Probably ISO 6393								

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
Tracked Loaders

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Switzerland	Engine Power	Estimated 1983/84	Not yet decided	0	L _A	National Test Pro- cedure	Max gov- erned engine speed, or max power, no load	FFRP 7 m 4 microphones, 0.05 m height	Type test by Government labora- tory (2 production verification checks by government lab possible)			National Type Approval and Emission Conformity checks after sales by local authorities		Test method chosen based on simplicity, re- producibility, and possibility for subsequent control measurements
EEC Proposal	≤ 150 kw 150 - 250 kw 250 - 375 kw > 375 kw		107 104 110 107 112 110 115 112	NIL	L _{WA}	Council Directive 79/113/EEC of 12/19/78	Static at rated engine speed, free of load	4 m, 10 m, or 16 m radius hemisphere depending on dimension of source	Type Approval			Type Approval with Compliance checks		Proposed and before Council Council of Ministers to be published
France	< 147 kw ≥ 147 < 221 kw ≥ 221 < 368 kw ≥ 368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	L _{pA} L _{pA} L _{pA} L _{pA}	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		
West Germany	≤ 110 kw > 110 kw	1973	87 90		L _A (10m)	National Test Pro- cedure (2 points)	Typical work cycle	10 m (exp., 16 or 20 m)						High-idle levels lower by 1 dBA (8 points at 7 m); low-noise emission product at 5 dBA lower levels
	≤ 110 kw > 110 kw	1977	83 86		Same	Same	Same	Same						High-idle levels lower by 2 dBA (8 points at 7 m); low-noise emission product at 5 dBA lower levels

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
Tracked Dozers

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	≤ 110 kw	1973	87 87 90		L _A (10m)	8 points 2 points 2 points	High-idle Work cycle Drive-by	7 m 10 m 10 m						Low-noise emission product at 5 dBA lower levels
	> 110 kw		90 90 92			8 points 2 points 2 points	High-idle Work cycle Drive-by	7 m 10 m 10 m						Same
	≤ 110 kw	1977	82 82 87		Same	8 points 2 points 2 points	High-idle Work cycle Drive-by	7 m 10 m 10 m						Same
	> 110 kw		85 85 89			8 points 2 points 2 points	High-idle Work cycle Drive-by	7 m 10 m 10 m						Same
U.S.A. *			90	8 hr. max. exposure	L _A			At Operators Position						OSHA Reg.
	By Power		75		L _A			15 m						CSA Reg.
		Estimate 83			L _A									EPA Reg.
EEC (proposal)	≤ 150 kw 150 - 250 kw 250 - 375 kw > 375 kw		107 104 110 107 112 110 115 112	NIL	L _{WA}	Council Directive 79/113/EEC of 12/19/78	Static at rated engine speed, free of load	4 m, 10 m, or 16 m radius hemisphere depending on dimension of source	Type Approval			Type Approval with random compliance checks		Proposal & before the Council of Ministers To be published

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Tracked Dozers**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Sweden		Anticipated				Probably ISO 6393								
Norway	Dozers 0-150 kw 150-250 kw > 250 kw DIN				L _{WA} MAX L _A at operator's	ISO DIS 6393 ISO DIS 6394		Measurement points 2, 4, 6, 8, 10, 12						Harmoniza- tion with proposed EEC Directive
Switzerland	Engine Power	Est 1983/84	Not yet decided	0	L _A	National Test Pro- cedure	Max gov- erned engine speed, or max power no load	FFRP 7 m 4 microphones, 0.05 m height	Type test by Govern- ment laboratory (2 production verifica- tion checks by government lab possible)			National Type Approval and Emission Conformity checks after sales by local authorities)		Test method chosen based on simplicity, re- producibility, and possibility for subsequent control measurements
France	< 147 kw ≥ 147 < 221 kw ≥ 221 < 368 kw ≥ 368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	L _{pA} L _{pA} L _{pA} L _{pA}	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
Wheel Loaders

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	≤ 110 kw	1972	87		L _A (10m)	8 points 2 points 2 points	High-idle Work cycle Drive-by	7 m 10 m (resp., 15 or 20 m) 10 m						Low noise emission product at 5 dBA lower levels
			86 90											
	> 110 kw		90 90 93		Same	8 points 2 points 2 points	High-idle Work cycle Drive-by	7 m 10 m (resp., 15 or 20 m) 10 m						Same
U.S.A. *	≤ 110 kw	1976	82 81 85		Same	8 points 2 points 2 points	High-idle Work cycle Drive-by	7 m 10 m (resp., 15 or 20 m) 10 m						Same
			85 35 88											
	> 110 kw				L _A	8 points 2 points 2 points	High-idle Work cycle Drive-by	7 m 10 m (resp., 15 or 20 m) 10 m						Same
U.S.A. *	By Power	Estimate 83	90	8 hr. max exposure	L _A		At Oper- ator's Position							OSHA Reg.
			75		L _A			15 m						CSA Reg.
					L _A									FPA Reg.

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Wheel Loaders

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Sweden		Anticipated				Probably ISO 6393								
Switzerland (New Regula- tion Under Development)	Engine Power	Est 1984/85	Not yet decided	0	L _A	National Test Pro- cedure	Max gov- erned engine speed, or max power, no load	FFRP 7 m 4 microphones, 0.05 m height	Type test by Govern- ment laboratory (2 production verifica- tion checks by government lab possible)			National Type Approval and Emission Conformity checks after sales by local authorities		Test method chosen based on simplicity, re- producibility, and possibility for subsequent control measurements
(Existing)	< 147 kw > 147 kw	7/1/77 10/1/82 10/1/86 7/1/77 10/1/82 10/1/86	86 85 84 88 87 86	1 for new product tests	L _{AMAX} (FAST)	National Test Procedure	Accelera- tion if V _{MAX} > 40 km/h; V _{MAX} < 40 km/h, max velocity pass by Stationary test, in-use every 3 yrs (State level)	7.5 m	Type test by Government Lab			Type Approval (National level)		Will probably be replaced by new regulation

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
Wheel Loaders

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Norway	Wheel Loaders 0-150 kw 150-250 kw > 250 kw				L _{WA} MAX L _A at operator's position	ISO DIS 6393 ISO DIS 6394		Measurement points 2, 4, 6, 8, 10, 12						Harmonization with proposed EEC Directive
EEC (proposal)	≤ 150 kw 150 - 250 kw 250 - 375 kw > 375 kw		107 104 110 107 112 110 115 112	NIL	L _{WA}	Council Directive 79/113/EEC of 12/19/78	Static at rated engine speed, free of load	4 m, 10 m, or 16 m radius hemisphere depending on dimension of source	Type Approval			Type Approval with random compliance checks		Proposed & before the Council of Ministers To be published
France	< 147 kw ≥ 147 < 221 kw ≥ 221 < 368 kw ≥ 368 kw	4/1/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	L _{pA} L _{pA} L _{pA} L _{pA}	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Welding Generators

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Netherlands					L _A NTE	EEC						Type Approval		Under Develop- ment
EEC	< 200 A		107	NIL	L _{WA}	Council Directive 79/113/EEC of 12/19/ 78	Full load as designed	4 m or 10 m radius hemisphere depending on dimensions of source (12 microphones)	Type Approval			Type Approval with random compliance checks		Proposed & Before the Council of Ministers Published in O.J. No. L CS4 of 3/8/76
			102											
	> 200 A		102											
			98											
France	≥ 200A < 200A	3/1/78 3/1/78	85 80	0 0	L _{pA} L _{pA}	5 points 4 points	on load on load	1 m 7 m				Type Approval		

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Pneumatic Hammers

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
Netherlands	By weight				L _A NTE	EEC						Type Approval		Under develop- ment
West Germany	≤ 20 kg	1976	84		L _A (10m)	National Test Procedure	Typical work condition	7 m						Low noise emission product at 5 dBA lower levels
	20 kg - 35 kg > 35 kg		87 90											
Switzerland	≤ 20 kg	1980	79		Same	Same	Same	Same						Same
	20 kg - 35 kg > 35 kg		82 87											
Switzerland	By weight	Est. 1984/85	Not yet decided	0	L _A	National Test Pro- cedure	Max gov- erned engine speed, or max power no load	FFRP 7 m 4 microphones, 0.05 m height	Type test by Govern- ment laboratory (2 production verifica- tion checks by government lab possible)			National Type Approval and Emission Conformity checks after sales by local authorities		Test method chosen based on simplicity, re- producibility, and possibility for subsequent control measurements

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Dumpers

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Norway	Dumpers				L _{WA} MAX L _A at operator's position	ISO DKS 6393 ISO DKS 6394		Measurement points 2, 4, 6, 8, 10, 12						Harmoniza- tion with pro- posed EEC Directive
Switzerland (Existing)	< 147 kw > 147 kw	7/1/77 10/1/82 10/1/86 7/1/77 10/1/82 10/1/86	86 85 84 88 87 86	1 for Type Approval Tests	L _A MAX (FAST)	National Test Procedure	Accelera- tion if V _{MAX} > 40 km/h, if V _{MAX} ≤ 40 km/h max speed pass by	7.5 m	Type Test by Government Lab			Type Approval (National level) and stationary test in use, every 3 years (State level)		Will probably be replaced later by the new regula- tions
(New Regulation Under Development)	Engine Power	Est 1984/85	Not yet decided	0	L _A	National Test Pro- cedure	Max gov- erned engine speed, or max power, no load	FFRP 7 m 4 microphones, 0.05 m height	Type test by Govern- ment laboratory (2 production verifica- tion checks by government lab possible)			National Type Approval and Emission Conformity checks after sales by local authorities		Test method chosen based on simplicity, re- producibility, and possibility for subsequent control measurements
France	< 147 kw > 147 < 221 kw > 221 < 368 kw > 368 kw	4/1/72 5/5/75 5/5/75 5/5/75	80 83 87 90	0 0 0 0	L _{pA} L _{pA} L _{pA} L _{pA}	4 points	Stationary Max speed	7 m 7 m 7 m 7 m				Type Approval		

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
 Crawler Tractors and Wheel Tractors

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Switzerland (Existing)	< 147 kw	1/1/80 10/1/82 10/1/86	82 80 78*	1 for new product	L _{MAX} (FAST)	National Test Procedure	Station- test, in-use, at max power engine speed	7 m	Type Test by Govern- ment lab			Type Approval (National level) and in-use tests every 3 years (State level)		Will probably be replaced by new regulations
	≥ 147 kw	1/1/80 10/1/82 10/1/86	84 82 80											
	Engine Power	Est 1984/85	Not yet decided	0	L _A	National Test Procedure	Max gov- erned engine speed, or max power, no load	FFRP 7 m 4 microphones, 0.05 m height	Type test by Govern- ment laboratory (2 production verifications checks by government lab possible)			National Type Approval and Emission Conformity checks after sales by local authorities		Test method chosen based on simplicity, re- producibility, and possibility for subsequent control measurements
United States [*]	By power	Estimate 83			L _A									EPA Reg.
France	< 147 kw	4/11/72	80	0	L _{pA}	4 points	Stationary Max speed	7 m				Type Approval		
	≥ 147 < 221 kw	5/5/75	83	0	L _{pA}			7 m						
	≥ 221 < 368 kw	5/5/75	87	0	L _{pA}			7 m						
	≥ 368 kw	5/5/75	90	0	L _{pA}			7 m						

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Small P-Axle Tractors

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Switzerland		1/1/80 10/1/82 10/1/86	83 82 80	1 for new product	L _{MAX} (FAST)	National Test Procedure	Stationary test, at max power, engine speed	7 m	Type test by Government lab			Type Approval (National level) in-use tests every 3 years (State level)		

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM . Concrete Pumps

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	All	1973	86		L_A (10m)	National Test Procedure (8 points)	Typical work condition (max load)	7 m						Low noise emission product at 5 dBA lower levels
			81											
France	< 147 kw > 147 < 221 kw > 221 < 368 kw > 368 kw	4/1/72 5/5/75 5/5/75 5/5/75	80	0	L_{pA} L_{pA} L_{pA} L_{pA}	4 points	Stationary Max speed	7 m				Type Approval		
			83	0				7 m						
			87	0				7 m						
			90	0				7 m						

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM CONCRETE MIXERS

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	Electric/ Combustion Engine	1972			L_A (10m)	National Test Procedure (8 points)		7 m						Low noise emission product at 5 dBA lower levels
	charging volume < 150 liter		66/73 71/73				High-idle With charge							
	150-500 liter (manual charge)		72/79 72/76				High-idle With charge							
	(power-driven charge)		83/83				Work cycle							
	> 500 liter		85/85				Work cycle							
	Electric / combustion engine	1975			Same	Same		Same						Same
	Charging volume < 150 liter		61/68 66/68				High-idle With charge							
	150-500 liter (manual charge)		66/73 68/71				High-idle With charge							
	(power-driven charge)		80/80				Work cycle							
	> 500 liter		82/82				Work cycle							

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Tuck Mixers

ORIGINAL ENGLISH

[illegible]

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Excavators

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	Mobile units	1974			L_A (10m)	National Test Procedure		7 m						Low noise emission product at 5 dBA lower levels
	≤ 85 kw		83			8 points 4 points	High-idle Work cycle							
	> 85 kw		86 86 89			8 points 4 points	High-idle Work cycle							
	Mobile units	1978	78 81 81 84		Same	Same 8 points 4 points 8 points 4 points	High-idle Work cycle High-idle Work cycle	Same						Same
EEC (proposal)	≤ 150 kw		107			Council Directive 79/113/EEC of 12/19/78	Static at rated engine speed, free of load	4 m, 10 m, or 16 m radius hemisphere depending on dimension of source	Type Approval			Type Approval with random compliance checks		Proposed & before the Council of Ministers To be published
	150 - 250 kw		104		L_{WA}									
	250 - 375 kw		110 107 112 110 115 112	NIL										
	> 375 kw													
Norway					L_{MAX}	ISO/DIS 6393		Measurement points 2, 4, 6, 8, 10, 12						Harmonization with proposed EEC Directive
					L_A at operator's position	ISO/DIS 6394								

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
Excavators

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw	4/11/72	80	0	LpA	4 points	Stationary Max speed	7 m				Type Approval		
	>147 <221 kw	5/5/75	83	0	LpA			7 m						
	>221 <368 kw	5/5/75	87	0	LpA			7 m						
	>368 kw	5/5/75	90	0	LpA			7 m						

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
Soil Compactors

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West German	Soil Compactors		under development											
France	< 147 kw	4/11/72	80	0	LpA	4 points	Stationary Max speed	7 m				Type Approval		
	≥ 147 < 221 kw	5/5/75	83	0	LpA			7 m						
	≥ 221 < 368 kw	5/5/75	87	0	LpA			7 m						
	≥ 368 kw	5/5/75	90	0	LpA			7 m						

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Earth Moving Machinery

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
Australia (Tasmania)		1977		0	L _A NITE	AS 2012			Domestic	Imports	Exports			Measurement procedures and operating parameters are presented in Code of Practice for Sound Pressure Level Measurement

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Wheeled Dozers

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
EEC (proposal)	≤ 150 kw 150 - 250 kw 250 - 375 kw > 375 kw		107 104 110 107 112 110 115 112	NIL	LWA	Council Directive 79/113/EEC of 12/19/78	Static at rated engine speed, free of load	4 m, 10 m, or 16 m radius hemisphere depending on dimension of source	Type Approval		-	Type Approval with random compliance checks		Proposed & before the Council of Ministers To be initiated

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Mortar Spreaders

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw	4/11/72	80	0	LpA	4 points	Stationary Max speed	7 m				Type Approval		
	>147 <221 kw	5/5/75	83	0	LpA			7 m						
	>221 <368 kw	5/5/75	87	0	LpA			7 m						
	>368 kw	5/5/75	90	0	LpA			7 m						

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Concerning Sound Emission from Levelers

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw > 147 < 221 kw > 221 < 368 kw > 368 kw	4/11/72 5/5/75 5/5/75 5/5/75	80	0	LpA	4 points	Stationary Max speed	7 m				Type Approval		
			83	0	LpA			7 m						
			87	0	LpA			7 m						
			90	0	LpA			7 m						

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Cranes

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw	4/11/72	80	0	LpA	4 points	Stationary Max speed	7 m				Type Approval		
	>147 <221 kw	5/5/75	83	0	LpA			7 m						
	>221 <368 kw	5/5/75	87	0	LpA			7 m						
	>368 kw	5/5/75	90	0	LpA			7 m						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Rammers**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw	4/11/72	80	0	LpA	4 points	Stationary	7 m				Type Approval		
	>147 < 221 kw	5/5/75	83	0	LpA		Max speed	7 m						
	> 221 < 368 kw	5/5/75	87	0	LpA			7 m						
	> 368 kw	5/5/75	90	0	LpA			7 m						

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Backhoes

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw	4/11/72	80	0	LpA	4 points	Stationary	7 m				Type Approval		
	>147 <221 kw	5/5/75	83	0	LpA			7 m						
	>221 <368 kw	5/5/75	87	0	LpA	Max speed		7 m						
	>368 kw	5/5/75	90	0	LpA			7 m						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM _____ Finishers**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw	4/11/72	80	0	LpA	4 points	Stationary Max speed	7 m				Type Approval		
	>147 <221 kw	5/5/75	83	0	LpA			7 m						
	>221 <368 kw	5/5/75	87	0	LpA			7 m						
	>368 kw	5/5/75	90	0	LpA			7 m						

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ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Cable L49/C13

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw	4/11/72	80	0	LpA	4 points	Stationary Max speed	7 m				Type Approval		
	>147 <221 kw	5/5/75	83	0	LpA			7 m						
	>221 <368 kw	5/5/75	87	0	LpA			7 m						
	>368 kw	5/5/75	90	0	LpA			7 m						

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Powered Rollers

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw	4/11/72	80	0	LpA	4 points	Stationary Max speed	7 m				Type Approval		
	≥147 <221 kw	5/5/75	83	0	LpA			7 m						
	≥221 <368 kw	5/5/75	87	0	LpA			7 m						
	≥368 kw	5/5/75	90	0	LpA			7 m						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
Vibrators**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	< 147 kw	4/11/72	80	0	LpA	4 points	Stationary Max speed	7 m				Type Approval		
	> 147 < 221 kw	5/5/75	83	0	LpA			7 m						
	> 221 < 368 kw	5/5/75	87	0	LpA			7 m						
	> 368 kw	5/5/75	90	0	LpA			7 m						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
Cutters**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	< 147 kw	4/11/72	80	0	LpA	4 points	Stationary Max speed	7 m				Type Approval		
	> 147 < 221 kw	5/5/75	83	0	LpA			7 m						
	> 221 < 368 kw	5/5/75	87	0	LpA			7 m						
	> 368 kw	5/5/75	90	0	LpA			7 m						

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Earth Levelling Equipment

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw	4/1/72	80	0	LpA	4 points	Stationary	7 m				Type Approval		
	>147 <221 kw	5/5/75	83	0	LpA		Max speed	7 m						
	>221 <368 kw	5/5/75	87	0	LpA			7 m						
	>368 kw	5/5/75	90	0	LpA			7 m						

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ORIGINAL ENGLISH

IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,
OR IS ANTICIPATED WITHIN FIVE YEARS

Product:	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Domestic Appliances			
Home Appliances		EEC, Netherlands, France	Denmark
Floor Care Appliances			U.S. (Labeling)* France
Vacuum Cleaners	Japan (Labeling)		U.S. (Labeling)* France
Flour Buffers			U.S. (Labeling)* France
Rug Shampooers			U.S. (Labeling)* France
Electric Brooms			U.S. (Labeling)* France
Major Home Appliances			U.S. (Labeling)*
Refrigerators			U.S. (Labeling)* France
Washing Machines	Japan (Labeling)	France	U.S. (Labeling)*
Dryers			U.S. (Labeling)* France
Dishwashers		France	U.S. (Labeling)*
Garbage Disposers			U.S. (Labeling)*
Miscellaneous Home Appliances			U.S. (Labeling)*
Sewing Machines			U.S. (Labeling)*
Portable Kitchen Appliances			U.S. (Labeling)* France
Blenders	Japan (Labeling)		U.S. (Labeling)* France
Juicers	Japan (Labeling)		

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

ORIGINAL ENGLISH

IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,
OR IS ANTICIPATED WITHIN FIVE YEARS

Product: Domestic Appliances	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Food Processors			U. S. (Labeling)*
Mixers			U. S. (Labeling)* France
Personal Care Appliances			U. S. (Labeling)*
Hair Dryers			U. S. (Labeling)*
Electric Shavers	Japan (Labeling)		U. S. (Labeling)*
Toys			
Model Airplanes	West Germany	Netherlands, U.K.	
Lawn and Garden Equipment	Chicago		U. S. (Labeling)*
Power Lawn Mowers	Canada, Denmark, Tasmania, Chicago, West Germany, France	Netherlands, Switzerland, New South Wales, EEC	U. S.*, Norway, Denmark, U.K.
Chain Saws	Canada, New South Wales, Tasmania, Chicago	France	U. S. (Labeling)* Australia, Switzerland
Garden Tractors	Chicago		U. S. (Labeling)*
Shop Tools	Canada, Tasmania		U. S. (Labeling)*
Power Drills	Japan (Labeling)		U. S. (Labeling)* France
Power Hand Saws			U. S. (Labeling)* France
Power Table Saws			U. S. (Labeling)* France
Power Sanders			U. S. (Labeling)*
Power Saber Saws			U. S. (Labeling)*

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,
OR IS ANTICIPATED WITHIN FIVE YEARS

Product: Domestic Appliances	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Grinders	Japan (Labeling)		
Disk Grinders	Japan (Labeling)		
Planers	Japan (Labeling)		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Home Appliances**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
EEC	Framework under development to define noise labeling program, measurement methods, and compliance checking scheme (measurement methodology under preparation by IEC)				(L_{WA})									
Netherlands				to be fixed	L_{WA} Statistical Maximum of Series	EEC						Levels to be declared by manufacturers; registration of declared value required before series allowed to be put on market		Noise labeling program under development
France	These projects are at a standstill in the process of elaboration.													

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
Vacuum Cleaners**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.*	Investigating need		for labelling program											
Japan	Electric	12/76	75	0	L_A	JIS-Z-8731 & JISC-9108	No load	1m, 2 point difference between background and product noise levels must be 10dB or more	Reg. applies	Reg. applies	Reg. applies	Voluntary not mandatory, no action taken for levels that exceed standards, manufacturers can label products that conform, products designated by ministries		Comparable to SO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, considered environmental matters and comfortable use of products
France	Being Studied													

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
Washing Machines**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.*	Investigating need for labeling program													
Japan	Electric	4/79	65	0	L_A	JIS-Z-8731 & JIS-C-9606	on load	3 points, 1m, 10-30dB difference between background and product noise level	Reg. applies	Reg. applies	Reg. applies	Voluntary not mandatory, no action taken for levels that exceed standards, manufacturers can label products that conform, products designated by ministries		Comparable to SO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, considered environmental matters and comfortable use of products
France	Project at a standstill in process				L_{WA}			Special Reverberant Room				Labeling		

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Blenders**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.*	Investigating need		for labeling program											
Japan	Electric	10/77	78	0	L _A	JIS-Z-8731 & JIS-C-9609	no load	2 points, 1m, 10-30dB difference between background and product noise level	Reg. applies	Reg. applies	Reg. applies	Voluntary not mandatory, no action taken for levels that exceed standards, manufacturers can label products that conform, products designated by ministries		Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, considered environmental matters and comfortable use of products
France	Being studied													

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
JALCERS
CONCERNING SOUND EMISSION FROM**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan	Electric	10/77	75	0	L _A	JIS-Z- 8731 & JIS- C-9609	no load	2 points, 1m, 10-30dB difference between background and product noise level	Reg. applies	Reg. applies	Reg. applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products design- ated by ministries		Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environ- mental matters and comfortable use of products

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Electric Shavers**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
U.S.*	Investigating	need	for labelling	program										
Japan	Vibrating Rotary	12/79	63 60	0 0	L _A	JIS-Z- 8731 and JIS-C- 9614	no load	1 point, 1m, 10-30dB difference between background and product noise level	Reg. applies	Reg. applies	Reg. applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products design- ated by ministries		Comparable to 50 R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environ- mental matters and comfortable use of products

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Model Airplanes

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Netherlands	All models				L _A NTE	Netherlands Standard	Engines at max. rpm, model at 1 m height 8 micro- phone positions with radius of 7 m and height of 1.2 m, 2 miles on long axis of model, mathematical avg. of 8 positions					Enforcement by club officials and local police on municipality level		Standard Based on National Research
U. K.			82 (except for national or international competitions)		L _A (SLOW)		Stationary	7 m				Club and local authority		Draft code of practice
West Germany	All combustion engine models	1978	87		L _A (SLOW) NTE		Stationary, at full power	7 m				Permission to use, by air traffic authority		Low noise engine products at up to 16 dBA lower levels
	Same	Jan. 1981	84		Same		Same	Same				Same		Same

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Lawn and Garden Equipment

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.* (Chicago)	Investigating need for labelling program													
	Such as: small lawn and garden tools, snow removal equipment,	1/1/78	65		L_A			15.2m				Product can't be sold if it exceeds the limit		
	Such as: log chippers powered hand tools	1/1/80	80		L_A			15.2m				Product can't be sold if it exceeds the limit		

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM POWER LAWN MOWERS

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Netherlands	All categories			Still to be fixed	L_{WA} Statistical max. of series	BEC Directive 79/113/ CEE						Levels to be declared by manufacturers. Registration of declared values re- quired before series allowed to be put on market for sale		Noise labeling program under development
Canada	All categories			0	L_A (SLOW NTE	CSA 2107.71 M1980								Existing ISO Pro- cedures not accep- table; conformity desired with U.S. Labeling require.
Denmark	cutting length in cm. ≤ 50 cm 50 - 120 cm > 120 cm ≤ 50 cm 50 - 120 cm > 120 cm	until 9/30/83 10/1/83	103 106 111 96 100 105	0 0	L_{WA} NTE L_{WA} NTE	Danish based	Pass-by test, 3 measuring points, perpendi- cular to line of travel					Manufacturer self- certification; manu- facturer's submit records to Nat'l. Agency of Environmental Pro- tection; self-certifica- tion record goes with each model; Nat'l Agency can carry out spot tests		ISO/DIP 5395 stationary test de- veloped after Danish test. Scan- dinavian agreement on measuring method

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Power Lawn Mowers

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
EEC Proposal	Cutting width up to: ≤ 50 cm 50-120 cm > 120 cm		103 106 111	NIL	LWA	O.J. C. 86 of 4/21/ 79	Max speed	4 m or 10 m hemisphere radius	Manufacturer's Certificate			By Labeling		Proposed and before the Council of Ministers Published in O.J. No. L C 86 4/21/79
Norway	Classed by cutting width < 60 cm 60-120 cm > 120 cm	Anticipated within 5 years			LWA in Belts	Same as Denmark						EEC Reg 15 with industry selected sample ≤ 10 units		
Australia (New South Wales) (Tasmania)	Program Under Development	1977		0	LA NTE	AS 1217						Type Approval		Measurement procedures and operating parameters presented in Code of Practice for Sound Pressure level Measurement

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM**
Power Lawn Mowers

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.* (Chicago)	Investigating need for labeling program	1/1/78	65		L _A			15.2m				Product can't be sold if it exceeds the limit		
	≤ 3 kw 3 kw - 7 kw > 7 kw	1976	75 78 83		L _A max (FAST)	(5 points)	Free running, max. engine speed	10 m				Manufacturer self-certification; labeling		Low-noise emission product below 60 dBA; publication of emission values
United Kingdom	≤ 3 kw 3 kw - 7 kw > 7 kw	1983	68 72 77		Same		Same	Same				Same		Same
														Action will be taken as appropriate to implement EEC directive on lawn mowers when adopted by the Council of Ministers.
Switzerland	Regulation Under Development Cutting width	Est. 1984/85				Probably EEC Proc.			Type test by Government Lab			Type Approval (National level)		
France	Cutting width in mm	2/80	103	0	L _{WA}	Standard	Stationary	4 m						
	1 ≤ 500	10/83	96	0	L _{WA}	MF 0.15.171		4 m						
	500 < 1 ≤ 1200	2/80	106	0	L _{WA}									
	1 > 1200	10/83	100	0	L _{WA}			10 m						
		10/80	111	0	L _{WA}									
		10/83	105	0	L _{WA}									Transmission, preliminary to sale of the official test report

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Chain Saws

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Canada	All categories			0	Noise - L _A (SLOW) NTE Vibration - RMS m/sec. 2 (SLOW)	CAN3- Z62.1- m77								Vibration standard may be compatible with ISO procedure under develop- ment, urgent need for Canadian standard in absence of ISO procedure ; Canadian standard presently under review
Australia	All sold in Australia	Date of Manufacture or importa- tion in Australia 1/79-1/81 1/81-1/82 After 82		0	L _A NTE		Operate motor at least 3 minutes, chain saw at least 1 m from ground, operator on stand held, max throttle	Microphone at least 1 m above ground at least 7.5 m from motor						Final Draft May 1979, Regulation Anticipated
(New South Wales)		1/1/82	95 85		dBA		Free running full throttle	7.5m				Prohibit sale of saws in excess of standard		Labeling required
(Tasmania)	Regulation in existence													
U.S. (Chicago)	Investigating need for labeling program	1/1/80	80		L _A			15.2m				Product can't be sold if it exceeds the limit		

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Chain Saws

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Switzerland	Anticipated Program													
France	Regulation in the process of concerning:	The safety of the user The noise level at the ear (LpA) The transmitted vibrations	line tuning of the user									Approval		

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
 Garden Tractors

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.* (Chicago)	Investigating need for labeling	1/1/78	65		L _A			15.2m				Product can't be sold if it exceeds the limit		

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Shop Tools

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U. S. A.*	Investigating Need for Labeling Program													
Canada	All Categories			0	L _A (SLOW) NTE	CSA Z107.71- m1980								Existing ISO pro- cedure not accep- table; Conformity desired with U. S. labeling require- ments
Australia (Tasmania)		1977		0	L _A NTE	AS 1217								Measurement pro- cedures and operating parameters presented in Code of Practice for Sound Pressure Level Measurement
France	Being Studied													

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Power Drills

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.*	Investigating need for labeling program													
Japan	Portable Electric	3/76	82	0	L _A	JIS-Z- 8731 & JIS- C-9605	no load	6 points 1m, 10-30 dB difference between back ground and product noise levels.	Reg. Applies	Reg. Applies	Reg. Applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products desig- nated by ministries		Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environ- mental matters and comfortable- ness of products
France	Being Studied		85	0			on load	4 points						

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Grinders

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan	Electric Portable	3/76	82	0	L _A	JIS-Z- 8731 & JIS- C-9621	no load	5 points 1m, 10-30 dB difference between background and product noise levels	Reg. Applies	Reg. Applies	Reg. Applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products design- ated by ministries		Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environ- mental matters and comfortable use of products
							on load	4 points						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM**
Disk Grinders

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan	Electric	3/76	90	0	L _A	JIS-Z-8731 & JIS-C-9611	no load	5 points 1m, 10-30 dB difference between background and product noise levels	Reg. Applies	Reg. Applies	Reg. Applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products desig- nated by ministries		Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environ- mental matters and comfortable use of products
			92	0			on load	4 points						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
P Lamps**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan	Portable Electric	3/76	90	0	L_A	JIS-Z- 8731 & JIS- C-9625	no load	5 points 1m, 10-30 dB difference between back ground and product noise levels				Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products design- ated by ministries		Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environ- mental matters and comfortable use of products
			92	0			on load	4 points						

IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,
OR IS ANTICIPATED WITHIN FIVE YEARS

Product :	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Miscellaneous			
Watercraft	West Germany, Bavaria, Baden/Württemberg	Norway, West Germany, U.K.	
Motorboats	Canada, Tasmania, Oregon, Switzerland	Netherlands	
Hovercraft and surface effect ships			
Stowmobiles	Chicago, Sweden, Canada, Oregon, New Hampshire		
Tractors	Chicago, EEC, United Kingdom, Denmark, Switzerland	Netherlands	
Hearing Protectors	United States		
Building Materials			United States (labeling)*
Acoustical ceiling tiles			United States (labeling)*
Acoustical wall tiles and panels	Mexico		United States (labeling)*
Noise control partitions and screens	Mexico		United States (labeling)*
Forklift Trucks		EEC	U.K.
Office Equipment			United States (labeling)*
Typewriters			United States (labeling)*
Copy Machines			United States (labeling)*
Word Processing Machines			United States (labeling)*

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,
OR IS ANTICIPATED WITHIN FIVE YEARS

Product ; Miscellaneous	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Heating, Ventilating, and Air Conditioning Equip- ment			United States (Labeling)*
Oil Burners and Boilers		Switzerland	
Heat Pumps	Canada		United States (Labeling)*, Germany
Residential central and window air conditioners	Canada, Japan (Labeling)	New South Wales, Victoria	United States (Labeling)*, Victoria (Labeling)
Dehumidifiers and humidifiers			United States (Labeling)*
Fans	Japan (Labeling)		United States (Labeling)*
Air Cleaners	Japan (Labeling)		United States (Labeling)*
Lighting Equipment			
Flourescent Table Study Lamps	Japan (Labeling)		
Domestic Pendant Luminaire			
Flourescent Lamps	Japan (Labeling)		
Recreation Vehicles and Offroad Vehicles	Tasmania, Chicago, New Hampshire, Mexico		
Industrial Vehicles	Tasmania		

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Watercraft

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Canada	Pleasure motor- boats inboard and out- board				L _A MAX (FAST) NTE	CSA Z107.21- m1977								Urgent need for Canadian stand- ard in absence of ISO Procedure; Regulation per- mits alternate approach of speed control
Netherlands	Hovercraft & surface effect ships				L _A									Total ban consider- ed with exceptions for specific re- quirements
Norway	Pleasure boats with outboard motors				L _A NTE	Modified ISO 2922	90% of max speed							Intent is to regu- late outboard motor noise; low- noise boat designs will be used to lessen boat noise
Australia (Tasmania)	Outboard Motor Vessels	1977		0	L _A NTE	AS 1949						Type approval of new products		Measurement pro- cedures and operating parameters presented in Code of Practice for Sailing Pressure Level Measurement
U.S. (Oregon)	All	84			L _A		Passby							In-use standard

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Watercraft

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.K.	Power Boat		85 (with limited exemption)		L _A (SLOW)		Moving at max. power	25 m				Club or local authority		Draft Code of Practice
	Water Ski Boats		75 and a 12-hr. L _{eq} of not more than 7dB over ambient level at boundary of zone of activity (limited exemption)		L _A (SLOW)		Constant speed 22 ± 2 mph	25 m				Club or local authority		Draft Code of Practice
West Germany	Ships (displacement ≥ 15 m ³), passenger boats (≥ 12 passengers), swimming con- struction equip- ment	1976	75		L _{A,max}		Passby at max. con- tinuous engine power	25 m						Regulation for watercraft on Rhine River
(Baden- Württemberg/ Bavaria)	All ships and watercraft	1976	72		L _{A,max}	DIN 45640		25 m						Regulation for watercraft on Lake Constance (Bodensee)
(Bavaria)	All ships and watercraft	1977	65		L _{A,max}	DIN 45640		25 m						Regulation for watercraft on Bavarian lakes and rivers

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM**

Motorboats

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	Motorboats	under development												General regulation
Switzerland	Motorboats	April 1979	73	0	L _A	National Test Procedure	Max. Power Passby	25 m	Type test by governmental Certified Lab (Regional Authorities)			Type Approval (Nat. level) 2 in-use checks if necessary (local level)		

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Snowmobiles

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Sweden	<400 kg	5/1/74	85		dba	ISO R-362	Surface snow					Certificate from manufacturer		
Canada			78	2	dba NTE	SAE J1929						Manufacturer self- certification, audit of test records by inspectors; testing of selected vehicles by inspectors		
U.S. (Oregon)		1975	78		L _A		passby	15.2m						Newly Manufactured
(New Hampshire)		1978	73		L _A	Intl. Snowmo- bile Industry Assn Test	Passby	15.2m						
(Chicago)		1/1/74	73		L _A	SAE J331 J986 J184		15.2m				Violation to to sell if in excess of level		

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Tractors

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
EEC	<1500 kg >1500 kg Wheeled Agricultural & Forestry Tractors Unladen	9/4/75	85 89	1 dB	Sound Pressure L _{AMAX}	As specified in the Directive 74/151/ EEC ECE Reg. 9 of 3/26/74	Approach test area at 3/4 max speed in highest gear for road movement, full open throttle through test area	7.5 m from path of the center line FFRP	Type Approval			Type Approval		Published in O.J. No.: L105 of 4/28/77, O.J. No. 184 of 3/28/74
	Driver perceived noise level of wheeled agricultural & forestry tractors		90		L _{AMAX} (SLOW)		Stationary test—3/4 max power at max governed speed	7 m from the nearest surface of the tractor FFRP						
			86		L _{AMAX} (SLOW)		Gear giving speed of 7.25 km/h, gear with noise level at least 1 db higher than at 7.25 km/h, max design speed	FFRP at operator's ear						
Netherlands					L _{AMAX} NTE	EEC 74/151/ EEC	7.25 km/h passby at max rpm	FFRP at operator's ear				Type Approval		

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Tractors

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.K.	Agricultural Tractors	6/1/76	90		L _A NTE	BS 4063:1973	in safety cab, tractor run within 10% of man- ufacturer's rated power	Noise at driver's ear						Tractors & cabs complying with 77/311/EEC are deemed to comply test similar to ISO DIS 5131, OECD standard, and 71/311/ EEC No. 2, British test predates ISO procedure. Test is substantially ISO/R 362, choice of test enabled simple in-use levels to be set with 3MBA test procedure cor- rection factor over new vehicle levels
												Offense to sell or use non-complying vehicle		
Denmark	<90 hp >90 hp	1970	89 92		L _A NTE	BS 3425: 1966	Average of 3 readings on noisest side of vehicle rounded down to nearest whole num- ber	7.5 m						Test method used with slight mod- ifications since 1969
	<1500 kg >1500 kg		85 89	0 0	L _A NTE L _A NTE	Danish procedure	Stationary vehicle, 2 microphones 1.2 m height, for gas powered engine speed is 3/4 max power for diesel is max gov- erned speed	7 m						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Tractors**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Switzerland	<147 kW	7/1/77	86	1 for new product tests	L _A MAX (FAST)	ECE Reg 9 3/26/74	Acceler- ation	7.5 m	Type Test by Government Lab		-	Type Approval (Nat. level) Stationary tests for in-use control every 3 years (state level)		
		10/1/82	85											
		10/1/86	84											
	≥147 kW	7/1/77	88											
		10/1/82 10/1/86	87 86											
U.S. (Chicago)	Agricultural tractors	1/1/80	80		L _A			15.2m				Can't sell if in excess of level		

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Hearing Protectors

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U. S. A.	All	9/27/80			dba	ANSI S3.19- 1974 Slight Modif	Experi- meter fit of protec- tors, test over fre- quency range, re- sults con- verted to simple number rating(NRR)		Reg Appl 1 es	Reg Appl 1 es		Label verification testing and reporting by manufacturer of each category; random monitoring of products in commerce; com- pliance audit testing; remedial orders.		Labeling Regu- lation

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Fork Lift Trucks**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.K.														
Action will be taken as appropriate to implement EEC directive on powered industrial trucks when Directive adopted by Council of Ministers														
EEC Proposal			Under Development											

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Oil Burners and Boilers

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Switzerland	Oil burners & boilers 20 - 300 kw	End 1981 as standard 1983/84 as compul- sory regu- lation			LWA	National Procedure		Reverberant Room Measure- ments (ISO-3741)	Type Test by Government lab			Type Approval (Nat. level) No in-use checks		High pressure gun-type burners; No ISO procedure available Different levels according to the power, measured levels; oil burners; flame noise, burner noise, boiler chim- ney noise, boiler noise.

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Heat Pumps

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U. S.*	Investigating Need for Labeling Program													
Canada					L _A MAX (SLOW) NTE	CSA Z 107.71- m-1980								Existing ISO procedures not acceptable; Desire conformity with U. S. labeling requirements

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Residential Central and Window Air Conditioners

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U. S. A.*	Investigating need for labeling program													
Canada					L _A MAX (SLOW) NTE	CSA 2107.71- M1980								Existing ISO procedures not acceptable; Deane conform- ity with U.S. Labeling Reqs.
Japan	<2240kcal/h 2500 - 3550kcal/h >4000kcal/h	3/79	INDR OUTDR 52 55 0 55 60 0 60 65 0		L _A	JIS Z 8731	no load no load no load	1 point, 1m, at least 8 dB differ- ence between background and product noise level	Reg. Applies	Reg. Applies	Reg. Applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products desig- nated by ministries		Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environ- mental matters and comfortable use of products
Australia (New South Wales)	Program under development													

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Residential Central and Window Air Conditioners

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Australia (cont) (Victoria)	< 6 kw input power consumption				L _A MAX	Based on AS 1861		Reverberant Room						Labeling program anticipated
	< 6 kw input power consumption				L _A MAX	National Procedure								In-use products regulation under development

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Fans

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.*	Investigating need for labeling program													
Japan	Ventilating Household Other	12/76	55 65	+3 +3	L _A	JIS -Z- 8731 & JIS- C-9603	No load No load	3 points, 1m, at least 8 dB differ- ence between background and product noise levels	Reg. Applies	Reg. Applies	Reg. Applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products design- ated by ministries		Comparable to ISO 81996, little difference, based on experience of manufacturer, consumer, and other parties concerned, con- sidered environ- mental matters and comfortable use of products

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Air Cleaners**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan	< 5m ³ /min		50	0	L _A	JIS-Z- 8731 & JIS- Z-9615	no load	1 point, in quiet room	Reg. Applies	Reg. Applies	Reg. Applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products desig- nated by ministries		Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environ- mental matters and comfortable use of products
	5-20m ³ /min	9/76	55	0			no load							
	> 20m ³ /min		60	0			no load							

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Fluorescent Table Study Lamps**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan		4/76	25	0	L_A	JIS-Z- 8731 & JIS C- 8112	Use test lamp	1 point, 0.1m	Reg. Applies	Reg. Applies	Reg. Applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products desig- nated by ministries		Comparable to 50 M1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environ- mental matters and comfortable use of products

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Domestic Pendant Luminaire Fluorescent Lamps**

Country/ Organization	Product Classes and Sub-classes	Effective Date	Layd	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan		4/76	25	0	L _A	JIS-Z- 8731 & JIS- Z-8115	Use test lamp	1 point, 0.5m	Reg. Applies	Reg. Applies	Reg. Applies	Voluntary not mandatory, no action taken for levels that exceed standards, manu- facturers can label products that conform, products design- ated by ministries		Comparable to ISO R1996, little difference, based on experience of manufacturer, consumer, and other quarters concerned, con- sidered environ- mental matters and comfortable use of products

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
RECREATION VEHICLES AND OFFROAD VEHICLES

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Australia (Tasmania)	Regulation	in existence												
U.S. (Chicago)	Bone buggies All terrain vehicles Go carts Mini bikes	1/1/75	75		L _A	SAE J331 J986 J184		15.2m						
(New Hampshire)	Offroad vehicles	1978	73		L _A		passby	15.2m						
Mexico	All sport vehicles	Jan. 2, 1976								Temporary Imports				Shall be used in authorized places under specific conditions
	Motocross Motorcycles	Jan. 2, 1976								Applies	Applies			Shall be used in authorized place under specific conditions

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
Industrial Vehicles**

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Australia (Tasmania)		1977		0	L _A NTE	AS 1217								Measurement procedures and operating parameters pre- sented in Code of Practice for Sound Pressure Level Measure- ment

IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,
OR IS ANTICIPATED WITHIN FIVE YEARS

Product: Railroads	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Locomotives & Stock	U.S.	West Germany	Denmark, U. K., Switzerland, F.R.G.
Railyard Facilities	U.S., Mexico	U.S.*	
Railcar Scouring Machines	France		

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Railroads

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
USA	Manufactured Before Dec. '79	Dec/76	93 _{MAX} 73 _{MLE}		L _A (SLOW) As Per 40FR1252 Part 201.23	As Per 40FR1252 Part 201.23	As Per 40FR1252 Part 201.24	30m from Geometric Center	Inspection Same as by Federal Domestic Railroad Adminis- tration and DOT as per 49CFR- 42345					Stationary Standard
	Manufactured After Dec. '79	Dec/79	87 _{MAX} 70 _{MLE}											
	Manufactured On or Before Dec. '79	Jan/84	87 _{MAX} 70 _{MLE}	In Compli- ance if 65 or Less at Receiving Property										
	Manufactured Before Dec. '79	Dec/76	96		L _A (FAST)			30 m from Center Line of Track with < 2 Degrees of Curvature						Moving Standard
	After Dec. '79	Dec/79	90											
	On or Before Dec. '79	Jan/84	90	In Compli- ance if 65 or Less at Receiving Property										
	All	Jan/84	83		L _A MAX (FAST)									Retarders
	All	Jan/84	92		L _A MAX (FAST)			At Property Measurement Locations						Car Coupling Operations
	All	Jan/84	78	In compli- ance if 65 or Less at Receiving Property	L _A MAX (SLOW)			30m from Geometric Center of Locomotive						Locomotive Load Cell
	Locomotives & Stock		Program under development											
EFC														

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Railroads

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	Locomotives & Stock	Under Development												
U. K.	Locomotives & Stock													Action will be taken as appropriate to implement EEC proposals on railway noise
Switzerland	Anticipated	Program												

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM**

Railcar Sorting Machines

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
France	<147 kw	4/11/72	80	0	LpA	4 points	Stationary Max speed	7 m				Type Approval		
	>147 <221 kw	5/5/75	83	0	LpA			7 m						
	>221 <368 kw	5/5/75	87	0	LpA			7 m						
	>368 kw	5/5/75	90	0	LpA			7 m						

ORIGINAL ENGLISH

IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,
OR IS ANTICIPATED WITHIN FIVE YEARS

Product:	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Motor Vehicles			
Trucks	Belgium, Czechoslovakia, Finland, Hungary, Italy, Romania, Spain, Yugoslavia, Australia, Victoria, Tasmania, West Germany, UN/ECE, Mexico, United Kingdom, Norway, United States, EEC, Sweden, Canada, Japan, Ireland, Netherlands, Denmark, Switzerland, Illinois	Denmark, Belgium, Spain	United States*
Interior	United States, Canada	UN/ECE	
Truck-Mounted Garbage Compactors	United States, Stockholm		
Truck-Mounted Refrigeration Units		United States*	
Buses	Victoria, Tasmania, Chicago, UN/ECE, Mexico, Switzerland, Yugoslavia, Oregon, Norway, Sweden, Canada, Ireland, Japan, Hungary, Romania, Spain, Australia, W. Germany, Belgium, Czechoslovakia, Denmark, EEC, Finland, France, Italy, Luxembourg, Netherlands, Portugal, U.K., Denmark	United States, Denmark, Belgium, Spain	
Interior	Canada	United States*	Denmark
Autos	Australia, Victoria, New South Wales, Illinois, Oregon, UN/ECE, Norway, EEC, Sweden, Canada, Ireland, Japan, Denmark, Netherlands, France, Italy, Mexico, Yugoslavia, Spain, Romania, Belgium, Czechoslovakia, Finland, Hungary, W. Germany, U.K., Switzerland, Chicago, Tasmania	Netherlands, Denmark, Spain, Belgium	United States*
Interior			United States*
Trucks	U.S., Mexico, Australia, Victoria, Tasmania, UN/ECE, New South Wales, Denmark, Norway, EEC, Canada, Japan, Romania, Italy, Czechoslovakia, Spain, Belgium, Finland, Hungary, Yugoslavia, W. Germany, Netherlands, U.K., Switzerland	UN/ECE	United States (labeling)*
Motorcycles		Denmark	
Motorbikes	Japan, Netherlands, United Kingdom, Denmark, Norway, Switzerland, W. Germany	United States, UN/ECE	
General Motor Vehicles	Tasmania, Western Australia, Victoria		

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
Trucks

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
USA*	All >4536 kg.	1/1/78	83	0	L _{AMAX} (FAST) NTE	U.S. EPA Based on slightly Modified SAE J1366B	Wide open throttle to max. rated en- gine speed NTE 56 km/h	15.24 m FFRP	See Compli- ance Checks	Same as Domestic	Regulation Does Not Apply	Mr. or EPA tests 1 sample of each Vehicle Configuration; Option- al Selective Enforce- ment Audits; Inspec- tion of Facilities and and Reports; Recall; Cease to Distribute		
		1/1/83	80	0										
	Revision to Regulation anticipated in 1984 to 1985 Time frame													
	Interstate Mo- tor Carriers >4536 kg. GVWR	10/15/75	86	0	L _{AMAX} (FAST) NTE		<56 km/h in opera- tion	15.2 m FFRP	Regulation Applies	Regulation Applies		On-road spot inspec- tion		
	Vehicles with engine speed governors	10/15/75	90	0	L _{AMAX} (FAST) NTE		>56 km/h in opera- tion	15.2 m FFRP						
			88		L _{AMAX} (FAST) NTE		Stationary wide open throttle accel to governed speed, neutral gear, clutch engaged	15.2 m. FFRP						
	Interior	10/1/74	90	2	L _{AMAX} (FAST) NTE		Stationary run up to governed speed or max rated hp	FFRP 6 inches from driver's ear	Regulation Applies	Regulation Applies		On-road spot inspec- tion		
	Investigating need for labeling program for light trucks													
(Illinois)	<3629 kg	8/9/73	74		L _A	ANSI S1.4- 1971	passby ≤56km/h	15.2m						In-use standard
			76				≥3 Grade							
			82				>56km/h							
			85				≥3 Grade							

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Trucks

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
EEC	< 3500 kg.	4/1/80	81	1	L _{AMAX}	EEC Based on ISO R/362	Wide open throttle after ap- proach at ¾ max. power or 50 km/h, whichever lower	7.5 m from path of the center line	Type Approval		--	Type Approval Tests		Published in O. J. No. L 66 of 3/12/77
	> 3500 kg.	4/1/80	86	1										
	> 12000 kg. and 200 hp	4/1/80	88	1										
SWEDEN	< 3500 kg.	81 model year	81		JBAMAX NTE	ISO R-362		7.5 m				Type approval tests only		
	3500 kg. - 12000 kg.	81 model year	86											
	> 12000 kg. and 147 kw	81 model year	88											
CANADA	Light duty Truck		80	2	L _{AMAX} (FAST) NTE	Canada Based on SAE J986a		15m	Reg Applied	Reg Applied				Test method suited to Canadian conditions
	< 4500 kg		83	2	L _{AMAX} (FAST) NTE	Canada Section 1106		15m						
	> 4500 kg. with govern- ed engines		83	2	L _{AMAX} (FAST) NTE	Canada Section 1106 1987 m 1677	Passby Station- ary	15m						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Trucks**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
CANADA (continued)	> 4500 kg Interior		90		L _{MAX} (FAST) NTE	CSA 2107.23 M 1977		at Operator ear						
IRELAND	Regulations	Implementing EMC Directives on				motor vehicle noise								
JAPAN	≤ 3500 kg		81	0	L _{MAX} (FAST) NTE	Slightly Modified ISO/ R362 for accel	Acceler- ation	7.5 m to left for acceleration 7 m to left for cruise	Reg. Applies	Reg. Applies	Reg. Does not Apply	Manufacturers test levels and submit records on prototype; Ministry of Transport determines conformity on basis of records and its own test; Ministry issues type approval; manufacturers conduct spot checks; Ministry reviews data, conducts own spot checks; no non- conforming vehicles can be operated.		Cruising-60% max power or 35km/h (whichever lower) Stationary-60% max power
		Domestic: 1/1/79- Can	74			National Procedure for Cruise & Stationary	Cruise & Stationary	20m to rear for station- ary						
	> 3500 kg ≤ 200hp	4/1/79- Diesel Imports: 4/1/81	86				Acceler- ation							
			78				Cruise & Stationary							
			86				Acceler- ation							
	> 3500 kg > 200 hp		80				Cruise & Stationary							

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Trucks

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Mexico	>2727 kg <3500 kg	Jan. 2, 1978	Pri-77 Model 88		L _A	NOM AA/37	Accelera- tion	15m	Applies	Applies	Applies			National Standard based on SAE J386- and SAE J366-b
			77-78 85											
			1979 & Later 83											
	> 3500 kg < 11000 kg		Pri-77 91											
			77-78 88											
			79 & Later 85											
	> 11000 kg		Pri-77 98											
			77-78 95											
			79 & Later 92											

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Trucks

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
NETHERLANDS	In accordance with EEC	5/27/71		0 for conformity 2 for police control	L _{MAX} (FAST) NTE	Based on EEC Directive 70/157/EEC		7.5m						
		4/1/81	In accordance with EEC Directive 77/242/EEC		L _{MAX} (FAST) NTE	Based on EEC Directive 77/242/EEC								
DENMARK	< 3500 kg	2/20/69	85	0	L _A NTE	ISO/ R362 (1964) ISO/DIS 362.2 (1980)		7.5m				Type approval, stationary survey test also carried out, for vehicles over 1 year old noise level must not exceed survey level by more than 3 dBA		Test method same as ECE Addendum 8
		10/1/82	81	0	L _A NTE	Regulation Under Development								

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Trucks

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
DENMARK (Cont Inused)	> 3500 kg	2/20/65												
	petrol or gas		86	0	L _A NTE	Denmark developed	Station- ary, trucks on both sides	7m				All vehicles must be tested when registered with police before receiving license plates		Test procedure used with small modifications since 1969
	diesel		88	0	L _A NTE		1.2m lit, petrol or gas run at 3/4 max power, aux gov- erned for diesel							
	> 3500 kg > 200hp > 12000 kg	10/82 10/82	86 88		L _A NTE L _A NTE	EEC 77/212	Regulation under development							
Australia	< 3500 kg 3500 kg - 12,000 kg	7/74 gas			L _A	Based on ECE Reg. 9	50 km/hr or 75% of speed at NEP, or 75% of max speed allowed by governor- which ever is lower	7.5 m to side 10 m from start of section						Max of 2 measurements on each side
	> 12,000 kg, < 150 kw	7/75 diesel												
	> 12,000 kg > 150 kw													
		7/80					lower 20m section, throttle full open at regulating all regulating all							

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Trucks

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Australia (Continued)	In-use gas or LPG: ≤ 3500 kg > 3500 kg			0	L _A		Stationary No load acceleration to governor RPM, slow to idle	1 m from exhaust						Mean of consecutive readings with 1 dB Cont of test tracks prohibitive for in-use moving vehicle testing
	Diesel: ≤ 3500 kg > 3500 kg - 12,000 kg > 12,000 kg													
	(Victoria)			0	L _A									In-use vehicle regu- lation, Average of 4 consecutive measurements with- 1dB range. Regula- tion in support of Australian Environ- ment Council docu- ment.
(Tasmania)	< 3500 kg 3500 kg - 12,000 kg > 12,000 kg NEP, < 150 kw	1977		0	L _A NTE	ADR 28, ADR 28A								New product and in-use regulations, see Australian National regulations

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Trucks**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.K.	<3500 kg	1970	85	0	L _A NTE	BS 3425: 1966	Average of 3 readings	7.5m				Offense to use or sell non- complying vehicles, power to prohibit use of non- complying vehicles		Choice of ISO R362 enabled simple in-use levels to be set with 3 dBA test procedure correction factor over new vehicle levels
	>3500 kg	1970	89	0	L _A NTE	Substan- tially ISO R362	on noise test side of vehicle, rounded down to next whole number							
	>12000 kg & 200 hp	1970	89	0	L _A NTE									
			(91 per- mitted for EEC type approved vehicles, effectively 92 to BS 3425)											
NORMAY	<3500 kg	1983	81		L _A NTE	EEC test								
	>3500 kg	1983	86											
	>12000 kg & 200 hp	1983	88											
NORMAY	<3500 kg			1	dBMAX	ISO R362								
	≥3500 kg ≥200 hp DIN					ECE Reg 9								

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Trucks

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Discriminator and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
SWITZERLAND	Light trucks and vans <3500 kg	7/1/77 10/1/82 10/1/86	81 79 77	1 for new product tests	L _{AM,X} (FAST)	ECE Reg 9 3/26/74	Acceler- ation	7.5 m	Type test by Government Lab			Type Approval (Nat. level) and Stationary tests for in-use conditions every 1-3 years (State level)		
	> 3500 kg :													
	< 147kW	7/1/77 10/1/82 10/1/86	86 84 82											
	≥ 147 kW	7/1/77 10/1/82 10/1/86	88 86 84											
	Engine brakes	7/1/77 10/1/82 10/1/86	86 86 84											
West Germany	≤ 3500 kg	1970	84	1	L _{A,max}	Substan- tially ISO R 362	Accelerated pass-by (wide-open throttle)	7.5 m	✓	✓		Type Approval		
	> 3500 kg		89											
	> 200 hp and > 12000 kg		91											
	≤ 3500 kg	1980	81	1	Same	Same	Same	Same	✓	✓		Same		
	> 3500 kg		86											
	> 200 hp and > 12000 kg		88											
	≤ 3500 kg	Revision target date 1985	78											
	> 3500 kg		80											
	> 200 hp and > 12000 kg		80											

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
TUNES

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
UN/ECE	≤ 3500 kg > 3500 kg > 12000 kg & > 174 kw	Dec. 12 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		Stricter limits under develop- ment in accord- ance with UN/ECE draft regulation
	≤ 3500 kg > 3500 kg > 12000 kg & > 174 kw	Dec. 12 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9 2	7.5 m				ECE Reg. 9		
	Czechoslovakia	≤ 3500 kg > 3500 kg > 12000 kg & > 174 kw	Dec. 12 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9	
Finland	≤ 3500 kg > 3500 kg > 12000 kg & > 174 kw	Dec. 12 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
	≤ 3500 kg > 3500 kg > 12000 kg & > 174 kw	Dec. 12 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
	Hungary	≤ 3500 kg > 3500 kg > 12000 kg & > 174 kw	Dec. 12 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9	
Italy	≤ 3500 kg > 3500 kg > 12000 kg & > 174 kw	Dec. 12 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
	≤ 3500 kg > 3500 kg > 12000 kg & > 174 kw	Dec. 12 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
	Romania	≤ 3500 kg > 3500 kg > 12000 kg & > 174 kw	Dec. 12 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9	

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Trucks

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Spain	≤ 3500 kg	Dec. 12 1974	84	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		Stricter limits under development in accordance with 11N/143: draft regulation
	> 3500 kg		89											
	> 12000 kg & ≥ 174 kw		91											
Yugoslavia	≤ 3500 kg	Dec. 12 1974	84	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
	> 3500 kg		89											
	> 12000 kg & ≥ 174 kw		91											

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Truck-Mounted Garbage Compactors

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.A.	Truck-mounted solid waste compactors	10/1/80	79	0	L-AMAX (SLOW) NTE	EPA Developed	Vehicle Stationary, empty, run at max. allowable or govern- ed speed of hydrau- lic pump, operate through 2 complete cycles of compactor	7 m FFRP	See Compli- ance checks	Same as Domestic	Regulation does not apply	Mfr. or EPA tests one sample of each vehicle configuration; Optional Selective Enforcement Audits; Inspection of Facili- ties; Reports; Recall; Cease to distribute		
		7/1/83	76	0	L-AMAX (SLOW) NTE									
Sweden (Stockholm)	Compactor truck		70		dBAMAX NTE		Loading	3 m from truck site						

[illegible]

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Buses

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
EEC	<3500 kg	4/1/80	81	1	L _A MAX	EEC Based on ISO R/36.2	Wide open throttle after approach at 3 max power or 50 km/h, whichever lower	7.5 m from path of the center line	Type Approval			Type Approval Tests		Published in O.J. No. 166 of 3/12/80
	>3500 kg	4/1/80	82	1										
	>2000 hp	4/1/82	85	1										
Sweden	<3500 kg	81 model year	81		L _A MAX NTE	ISO R/36.2		7.5 m				Type approval Tests Only		
	>3500 kg	same as above	82											
	>3500 kg and >147 kw	83 model year	85											
Canada	>4500 kg		83	2	L _A MAX (FAST) NTE	Canada Based on Section 1106 CSA Z107.23- m-1977		15 m	Reg. Applies	Reg. Applies				Test Method Suited to Canadian Conditions
	>4500 kg interior		90		L _A MAX (FAST) NTE			At Operator's Eab						

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Buses

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Ireland	Regulations Implementing EEC Directives on Motor Vehicle Noise													
Japan	≤ 3500 kg	Domestic: 1/1/79— Gas	81	0	L _{AMAX} (FAST) NTE	Slightly Modified ISO/R362 for accel- eration National Procedure for Cruise & Station- ary	Acceler- ation	7.5 m to left for acceleration 7 m to left for cruise 20 m to rear for stationary	Reg. Applies	Reg. Applies does not apply	Manufacturers test levels; submit records on prototype; Ministry of Trans. determines conformity on basis of records submitted and its own tests; Ministry issues type approval; Manufacturers con- duct spot checks; Ministry reviews data, conducts own spot checks; no non- conforming vehicles can be operated.		Cruising - 60% max power or 35 km/h, (whichever lower) Stationary - 60% max power	
			Cruising & Stationary											
	> 3500 kg ≤ 200 hp	Imports: 4/1/81	86				Acceler- ation							
	78		Cruising & Stationary											
	86		Acceler- ation											
	> 3500 kg > 200 hp		80		Cruising & Stationary									
W. Germany	≤ 3500 kg	1970	84	I	L _{A,max}	Substan- tially ISO R362	Accelerated	7.5 m	✓	✓	Type Approval			
	> 3500 kg ≥ 200 hp		89				Pass-by							
	≤ 3500 kg		1980 (1982) Revision target date: 1985				91							wide-open throttle)
	> 3500 kg ≥ 200 hp						81							Same
	≤ 3500 kg ≥ 200 hp						82							Same
	> 3500 kg ≥ 200 hp		76				Same							
	> 3500 kg ≥ 200 hp		80											
	> 3500 kg ≥ 200 hp		80											

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Buses

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Australia	< 3500 kg > 3500 kg, < 150 kW > 150 kW	Gas 7/74 Diesel 7/75			L _A	Based on ECE Reg. 9	Moving vehicle 50 km/h or 75% of speed at NEP, or 75% of max speed permitted by govern- ment or, which- ever lower, 20 m course, throttle fully open at start, fully closed at end	7.5 to side, 10 m from start of course						Maximum of at least 2 measurement on each side
	In-Use Gas or LPG < 3500 kg > 3500 kg Diesel < 3500 kg > 3500 kg 12000 kg > 12000 kg			0	L _A		Stationary no load, accelerate to governed speed, allow to idle	1 m from exhaust						Mean of 4 con- secutive readings, within 1 dB(A), cost of test track is prohibitive for in-use moving vehicle testing

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Buses

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Australia (Continued) (Victoria)	Diesel: < 3500 kg 3500 kg - 12000 kg > 12000 kg Gas or LPG: < 3500 kg 3500 kg - 12000 kg > 12000 kg			0	L _A									In-use vehicle regulation, average of 4 consecutive measurements within 1dB range, regulation in support of Australian En- vironment Council Document
(Tasmania)	< 3500 kg 3500 kg - 12000 kg > 12000 kg NEP, < 150 kW	1977		0	L _A NTE	ADR 28, ADR 28A								New product and in-use regulation, See Australia National Regulations
Belgium	≤ 3500 kg > 3500 kg > 12000 kg & > 174 kW Stricter limit	Dec. 12, 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. No. 9		
Czechoslovakia	≤ 3500 kg > 3500 kg > 12000 kg & > 174 kW	Dec. 12, 1974	84 89 91	1	dBA max	ECE Reg. 9 draft regulation	ECE Reg. 9	7.5 m				ECE Reg. No. 9		
Finland	≤ 3500 kg > 3500 kg > 12000 kg & > 174 kW	Dec. 12, 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. No. 9		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM**

Pages

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
France	Public Service Vehicles		90 92 in Operation		LIBAHAX	ISO R362		7.5 m						
Italy	≤ 3500 kg > 3500 kg > 12000 kg & > 174 kw	Dec. 12 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. No. 9		
Luxembourg	> 3500 kg > 200 hp	1973 1973	88 90 in Operation 92 94 in Operation		LIBAHAX LIBAHAX	ISO R362 ISO R362		7.5 m 7.5 m						
Mexico	> 2727 kg < 3500 kg > 3500 kg < 11000 kg > 11000 kg	Jan 2, 1976	Pre-77 88 77-78 85 79 & later 83 Pre-77 91 77-78 88 79 & later 85 Pre-77 98 77-78 95 79 & later 92		L _A	NOM AA/37	Acceler- ation	15 m	Applies	Applies	Applies			National Standard Based on SAE J 386-a and SAE J 366-b

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Buses**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Denmark	>3500 kg petrol or gas	2/20/69	86	0	L _A NTE	Denmark developed	Stationary Vehicle, 2 microphones 1.2 m ht., for petrol or gas at ½ max power, for diesel at max. governed speed	7 m				All vehicles must be tested when registered with police before re- activating license plates		Test procedure used with small modifications since 1969
	diesel		88	0	L _A NTE									
U. K.	<200 hp	10/82	82		L _A NTE	71/212/ EEC		Under Development						
	≥ 200 hp		85											
	<12 seats	1970	84	0	L _A NTE	BS 3425: 1966, Substan- tially ISO R362	Average of 3 readings on noise test side of vehicle rounded down to nearest whole dB(A)	7.5 m				Offense to use, sell non- complying vehicle; Power to prohibit use of non-complying vehicles; Inspection before license to carry passengers issued.		Choice of ISO R 362 enabled simple in-use levels to be set with JdBA test procedure correction factor over new vehicle levels
	>2 seats	1970	89	0	L _A NTE									
	>3500 kg & 200 hp	1970	89/91 EC applied if EEC type approved 1972 dBA BS 3425	0	L _A NTE									
	<3500 kg	1983			L _A NTE	EEC test								
	>3500 kg	1983	82		L _A NTE									
	>3500 kg & 200 hp	1983	85		L _A NTE									

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Buses
CONCERNING SOUND EMISSION FROM

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Norway	< 3500 kg ≥ 3500 kg ≥ 200 hp DIN			1	dB(A)MAX	ISO R362 ECE Reg. 9								
Switzerland	< 3500 kg > 3500 kg < 147 kW	7/1/77 10/1/82 10/1/86 7/1/77 10/1/82 10/1/86	81 79 77 85 82 80	1 for new product tests	L _{AN} MAX (FAST)	ECE Reg. 9 3/26/74	Acceler- ation	7.5 m	Type test by Government lab			Type Approval (Nat. level) and Stationary tests for in-use con- trols every 3 years (State level)		
	≥ 147 kW	7/1/77 10/1/82 10/1/86	87 84 82											
	Engine Brakes	7/1/77 10/1/82 10/1/86	86 86 84											
Yugoslavia	≤ 3500 kg > 3500 kg > 12000 kg & > 174 kW	Dec. 12, 1974	84 89 91	1	dB(A) max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. No. 9		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Buses**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Netherlands	>3500 kg	5/27/71	88 90 in Operation	0 for con- formity	JBAMAX	EEC Directive 70/157/EEC		7.5 m						
	> 200 hp	5/27/71	92 94 in Operation	2 for police control	JBAMAX	EEC Directive 70/157/EEC		7.5 m						
		4/1/81	Based on EEC Direc- tive 77/42/ EEC		LAMAX NTE	Based on EEC Dir- ective 77/212/EEC								
Portugal	< 5000 kg		85		JBAMAX	ISO R362		7.5 m						
	>5000 kg		88		JBAMAX	ISR R362		7.5 m						
U. S. A.*	>4536 kg GVWR	Effective dates under develop- ment	Exterior 83 80 77 Interior 86 83 80	0	LAMAX (FAST) NTE	EPA Based on SAE J366B slightly modified	Wide open throttle to max rated engine speed NTE 56 km/h	15 m FFRP	See Com- pliance checks	Same as Domestic	Regulation Does not Apply	Manufacturer or EPA tests. 1 sample of each vehicle configu- ration; Optional Sele- ctive Enforcement Audits Inspection of Facilities & Records, Recall, Cases to Distribute		

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Buses

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U. S. A. (cont.) (Oregon)		After model year 1978	82		L_A		Passby	15.2m				Violation is a Class B misde- meanor, each day is separate violation		In-use
			84				>56km/h							
			83		L_A		Passby	15.2m						Newly-manufac- tured
(Chicago)	>3629 kg	1/1/80	75		L_A	SAE J986 J331 J336 J184	Passby	15.2m				Can't sell if exceed level, fines for vio- lation, repeated offense subject to jail sentence		Newly-manufac- tured
UN/ECE	< 3500 kg > 3500 kg > 12000 kg & > 174 kw	Dec. 12, 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. No. 9		
Hungary	< 3500 kg > 3500 kg > 12000 kg & > 174 kw	Dec. 12, 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. No. 9		
Romania	< 3500 kg > 3500 kg > 12000 kg & > 174 kw	Dec. 12, 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. No. 9		
Spain	< 3500 kg > 3500 kg > 12000 kg & > 174 kw	Dec. 12, 1974	84 89 91	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. No. 9		
	Stricter limit under development in accordance with UN/ECE draft regulation													

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Autos**

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
EEC	< 9 Seats	4/1/80	80	1	L-AMAX	EEC based on ISO R362	Wide open throttle after ap- proach at 3/4 max power or 50 km/h, whichever lower	7.5 m from path of the center line	Type Approval		Type Approval tests		Published in OJ, No.: L66 of 3/12/77	
Sweden	Passenger car	81 model year	80		L-AMAX NTE	ISOR362		7.5 m			Type approval tests only			
Ireland	Regulations implementing EEC directives on motor vehicle noise.													
Japan	10 persons or less	Domestic : 1/1/79 Gas 4/1/79 Diesel Imports: Domestic 10/1/82 Imports: 4/1/84	81 70 78 70	0	L-AMAX (FAST) NTE	Slightly modified ISO/R362 for acceleration stationary	Acceler- ation Cruise Station- ary	7.5 m to left for acceleration 7 m to left for cruise 20 m to rear for stationary	Reg. applies	Reg. applies	Reg. applies	Manufacturers test vehicles; submit records on prototypes; Ministry of Transportation determines conformity on basis of records submitted and its own tests; Ministry issues type approval; manufact- urers conduct spot checks; Ministry reviews data; con- ducts own spot checks; no non-conforming vehicle can be operated	Cruising (60% max power or 35 km/h (whichever lower)) Stationary (40% max power)	
Netherlands		Planned 4/1/81		0 for com- munity; 2 for police control	L-AMAX NTE	Based on EEC Directive		7.5 m						

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Autos

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Netherlands (Continued)	Noise labeling program under development				L _A Statistical maximum of series	EEC proposal R/8358/80						Levels to be declared by manufacturer, registration of declared value required before series allowed to be put on market for sale		
France	Exhaust noise		82		dBA		Full throttle acceleration stationary rpm - 3/4 max rpm or for diesel	7.5 m						
			87		dBA		max rpm or for diesel	0.5 m						
			87		dBA		Stationary rpm up - 1/2 rpm of max power or max rpm for diesel	0.5 m						
Italy		Dec. 12, 1974	82	1	dBA Max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
Mexico	All types	Pic 1977 Model	86		dBA	NOM AA/37		15 m	Applies					
		1977-78 Model	83		dBA			15 m	Applies					
		1979 Model & LATER	80		dBA			15 m						

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Autos

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Denmark	Less than 9 seats	2/20/69	84	0	L _A NTE	ISO/R362 (1964) ISO/DIS 362.2 (1980)		7.5 m				Type approval, station- ary survey test also car- ried out; for used cars >1 year old, noise level must not exceed survey noise level + 3dBA		Test method is same as F4V. Addition 8
		10/1/82	80	0	L _A NTE	Regulation under de- velopment								
U. K.	All	1970	84	0	L _A NTE	BS3425: 1966, sub- stantially amended ISOR362	Average of 3 readings on noise side of vehicle, rounded down to next whole number	7.5 m				Offense to use on self- non-complying vehicles		Choice of ISO/R362 enabled single noise levels to be set with 3dBA test procedure correction factor over new vehicle levels
	All	1978	82	0	L _A NTE	EEC test		7.5 m				Subject to type approval of EEC directive. Power to inspect vehicle and manufacturing plants to check production conformity. No recall for non-compliance.		
Norway	All	1983	80		L _A NTE	EEC Test								
	<3500 kg			1	dBMAX	ISOR362 ECE Reg 9								

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Autos**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Canada	Light duty vehicles		80	2	L _{MAX} (FAST) NTE	Canada based on SAE J986a		15m	Reg Applies	Reg Applies				Test method suijted to Canadian conditions
Switzerland	Passenger cars	7/1/77 10/1/82 10/1/86	80 77 75	1 for new product	L _{MAX} (FAST)	ECE Reg 9 3/26/74	Acceler- ation	7.5 m	Type test by Government lab			Type Approval (National level) and Stationary tests for in-use controls every 3 years (State level)		
Australia	Passenger cars and derivatives	1/74 1/81			L _A	Based on ECE Reg. 9	Moving vehicle 50 km/h or 75% of speed at NEP, or 75% max governed speed, whichever lower, 20m course - full open throttle at start, full closed at end	7.5m to side, 10m from start of course						Maximum of 4 exams 2 examinations on each side
	In-use All types of passenger cars			0	L _A	Based on draft ISO R362	Stationary 75% max power							Average of 4 consecutive readings within 1 dB(A) (out of test tracks pro- cedure for in-use moving vehicle tests

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Autos

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Australia (Continued) (New South Wales)	In-service vehicles	7/1/79	96		dBA		75% of max power	0.5m from exhaust						
(Victoria)	Passenger cars and derivatives			0	L _A									In-use regulation Average of 4 con- secutive readings within 1 dB range. See Australian National regulation
(Tasmania)	Passenger cars	1977		0	L _A NTE	ADR 28, ADR 28A								New product and in-use regulation, See Australian National regulations
U.S.* (Illinois)	Investigating need for labeling program for autos Passenger cars	8/9/73	74 76 82 85		L _A	ANSI S1.4- 1971	≤ 56km/h ≥ 3° grade ≥ 56km/h ≥ 3° grade	15.2m						In-use

* Due to uncertainties concerning the United States Noise Regulatory Program, the above list of anticipated regulatory actions should be considered tentative, except where regulations have already been issued.

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
AUTOS

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U. S. (Continued) (Oregon) (Chicago)		1976	80		L_A		Passby	15.2m						Newly Manufactured
		1/1/80	75		L_A	SAE J986 J331 J336 J184		15.2m				Violation to self if noise in excess of level, fines, repeated offenses, subject to jail sentences		Newly Manufactured
UN/ECE		Dec. 12, 1974	82	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
West Germany	≤ 9 seats	1970	82	1	L_A , max	Substan- tially (S) R 362 (wide-open throttle)	Accelerated pass-by	7.5 m	✓	✓		Type Approval		
	Same	1980	80	1	Same	Same	Same	Same	✓	✓		Same		
	Same	Revision target date: 1985	75											
Belgium		Dec. 12, 1974	82	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
	Stricter limits under development in accordance with UN/ECE draft regulation													

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Autos

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Czechoslovakia		Dec. 12, 1974	82	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
Finland		Dec. 12, 1974	82	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
Hungary		Dec. 12, 1974	82	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
Romania		Dec. 12, 1974	82	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
Spain		Dec. 12, 1974	82	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		
	Stricter limit	under development in accordance with UN/ECE draft regulation												
Yugoslavia		Dec. 12, 1974	82	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.5 m				ECE Reg. 9		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
Motorcycles**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
EEC	≤ 80cc	10/1/80	78	1	L _{AMAX} (FAST)		Approach Speed of 50-70% of Max rpm, gear var-	7.5m from path of the center line	Type Approval			Type Approval Tests		Published in O.J. No.: L349 of 12/13/78
	≤ 125cc		80	1			ten by							
	≤ 350cc		83	1			number of							
	≤ 500cc		85	1			gears, cy-							
	> 500cc		86	1			inder capacity type of r ₀ 0.03 Open Thro-							
Canada							le Through Test Area Stationary Runup—1/4 Max rpm 1/2>5000 rpm, 1/4 Max rpm if ≤ 5000 rpm	0.5m From Exhaust FRP	Reg Applies	Reg Applies				Test Method Suited to Canadian Conditions
			86	2	L _{AMAX} (FAST) NTE	Canada Based on SAE J986a								
Mexico								1.5m	Reg Applies	Reg Applies	Applies			
			93				Acceleration							
			92											
			89											
	Pre 68 model							7.5 m	Applies	Applies				
	68-75													
	76-78													
	78 and later													

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Motorcycles

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan	> 125 cc	Domestic 4/1/79	78	0	L _{MAX} (FAST) NTE	Modified ISO/R362 for acceleration National Procedure for cruise & stationary	Acceler- ation Cruise & Stationary	7.5 m to left for acceleration 7 m to left for cruise 20 m to rear for stationary	Reg. Applies	Reg. Applies	Reg. Does Not Apply	Manufacturers Test Levels; Submit Records on Prototype; Ministry of Transport Determines Conformity on Basis of Records Submitted and Its Own Tests; Ministry issues type approval; manu- facturers conduct spot checks; Ministry review data, conducts own spot checks; no non-conform- ing vehicles can be operated.		Cruising 60% max power at 35 km/h 25 km/h for 1st class motor-driven cycle (< 50 cc), whichever lower; Stationary 60% max power; Test speeds & gear ratios different to concide better with actual cruising speeds; noise levels about 3dBA lower than with ISO/R 362
		Imports 4/1/81	74											
			75	0										
			70											
Netherlands	In accordance with EEC Directive 70/157/EEC	5/27/81		0 for Con- formity 2 for Police Control	L _{MAX} NTE	Based on EEC Direc- tive 70/157/ EEC		7.5m						
		Planned 7/1/81	In accord- ance with EEC Dir- ective 77/ 212/EEC		L _{MAX} NTE	Based on EEC Directive 77/212/EEC								
USA	Street	1/1/83	83	0	L _{MAX} (FAST) NTE	EPA Based on Adap- ed SAEJ- 331a	Approach Test Area in 2nd Gear at 50% Max Power or 50% Max Torque 10%, 51 de open Throt tle Through Test Area to Closing rpm	15 m FFRP	See Com- pliance Checks	Same as Domestic	Regulation Does Not Apply	MFTr. or EPA Tests 1 Sample of Each Vehicle Configuration; Optional Selective Enforcement Audits; Inspection of Facilities and Records; Recall; Cease to Distribute		
		1/1/86	80											
		1/1/83	83											
		1/1/86	80											
	Offroad < 170cc	1/1/83	86											
	> 170cc	1/1/86	82											
	Replacement Exhaust Systems Must Meet Same Levels on Same Dates with													

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM**

Motorcycles

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Denmark	≤ 80 cc	2/20/69	82	0	L _A NTE	ISO/R 362 (1964)		7.5 m				Type Approval; Survey Stationary Test Carried Out; Bikes Over 1 Year Old Cannot Exceed Survey Level by More Than 3dBA		Test Method is Same as Suggested by UNE WP29
	≤ 125 cc		82			ISO /DIS 362.2- 1980								
	≤ 350 cc		84											
	≤ 500 cc		84											
	> 500 cc		86											
U.K.	≤ 80 cc	10/1/82	78	0	L _A NTE	Plan to Use EEC Test Pro- cedure 78/1015/ EEC	Under Development							EEC Test is More Severe and Will (Other Things Being Equal, Give Higher Noise Levels Than Existing Test, Limit Values Will be Un- changed.
	≤ 125 cc		80											
	≤ 350 cc		83											
	≤ 500 cc		85											
	> 500 cc		86											
	≤ 50 cc	1970	77	0	L _A NTE	BS1425: 1966, Substan- tially ISO R362	Average of 3 Read- ings in Noise Side, Rounded Down to Next Whole Number	7.5 m				Offense to Sell on the Non-complying Vehicle		Choice of ISO R362 Enabled Simple In- Use Levels To Be Set with 3dBA test procedure correction factor over new vehicle levels
	50-125 cc	1970	82	0	L _A NTE									
	> 125 cc	1970	86	0	L _A NTE									
			(Because of Differences in Test Pro- cedures Some Large Motorcycles Designed to 86dBA Would Indi- cate +3dBA When Test- ed to EEC Procedures)											
	≤ 80 cc	1982	78	0	L _A NTE	EEC		7.5 m						
	≤ 125 cc		80	0										
	≤ 350 cc		83	0										
	≤ 500 cc		85	0										
	> 500 cc		86	0										

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM**
Motorcycles

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.K. (Cont. listed)	< 80 cc	1983	78	0	L _A NTE	EEC Test								
	80-125cc	1983	80	0										
	125-350cc	1983	83	0										
	350-500cc	1983	85	0										
	> 500cc	1983	86	0										
Norway	< 50ccm			1										
	50-125 cc 125-500 cc > 500 cc			1	dBAMAX	ISO/R362 ECE Reg. 9								
Switzerland	≤ 50 cm ³	7/1/77	77	1 for new product tests			Acceleration test until 9/30/82; 2nd or 3rd gear; from 10/1/82 only 2nd gear acceleration	7.5 m	Type test by government lab			Type Approval (Nat. level) & Stationary test for in-use controls every 3 years (State level)		
		10/1/82	76											
		10/1/86	73		L _A MAX (FAST)	National Test Procedure								
	50-125 cm ³	7/1/77	81											
		10/1/82	81											
		10/1/86	78											
	125-350 cm ³	7/1/77	82											
		10/1/82	83											
		10/1/86	80											
	350-500 cm ³	7/1/77	83											
		10/1/82	85											
		10/1/86	80											
	> 500 cm ³	7/1/77	84											
		10/1/82	85											
		10/1/86	80											

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Motorcycles**

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
UN/ECE	< 80 cm ³ < 125 cm ³ < 350 cm ³ < 500 cm ³ > 500 cm ³	June 1, 1980	78 80 83 85 86	1	dB(A) Max	ECE Reg. 41	ECE Reg. 41	7.5 m				ECE Reg. 41		
Australia	< 125 cc 125 - 500 cc > 500 cc	7/74			L _A	Based on ECE Reg. 9	Moving vehicle 50 km/h, or 75% speed at NEP, or 75% gov- erned speed whichever lower, 20m course throttle full open at start; full closed at end	7.5 m to side, 10 m from start of course						Max of 2 measure- ments on each side
In-Use All types				0	L _A	Draft ISO R362	Stationary, 50% max power							Average of 4 com- passive readings, within 1 dB(A), cost of test tracks pro- hibitive for in-use, moving vehicle tests

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM**

Motorcycles

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
Australia (cont (New South Wales)	In-Service Vehicles	7/1/79	100		dBA		50% of max power	0.5 m from exhaust						
(Victoria)	In-Use All types			0	L _A									Regulation in support of Aus- tralian Environment Council document, Average of 4 con- secutive measure- ments within 1dB range
(Tasmania)	All	1977		0	L _A NTE	ADR 28, ADR 28A								New product and In-Use regulation, see Australian National Regulation

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Motorcycles**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
West Germany	< 50 cc > 50 cc	1966	79 84	2	L _A , max	Substantial by ISO R 362	Accelerated Pass-by (wide-open throttle)	7.5 m	✓	✓		Type Approval		
	< 80 cc < 125 cc < 350 cc < 500 cc > 500 cc	1980	78 80 83 85 86	1	L _A , max	see EEC	see EEC	Same	✓			Same		
Czechoslovakia	< 80 cm ³ < 125 cm ³ < 350 cm ³ < 500 cm ³ > 500 cm ³	June 1, 1980	78 80 83 85 86	1	dBA max	ECE Reg. 41	ECE Reg. 41	7.5 m				ECE Reg. 41		
	< 80 cm ³ < 125 cm ³ < 350 cm ³ < 500 cm ³ > 500 cm ³	June 1, 1980	78 80 83 85 86	1	dBA max	ECE Reg. 41	ECE Reg. 41	7.5 m				ECE Reg. 41		
Italy	< 80 cm ³ < 125 cm ³ < 350 cm ³ < 500 cm ³ > 500 cm ³	June 1, 1980	78 80 83 85 86	1	dBA max	ECE Reg. 41	ECE Reg. 41	7.5 m				ECE Reg. 41		
	< 80 cm ³ < 125 cm ³ < 350 cm ³ < 500 cm ³ > 500 cm ³	June 1, 1980	78 80 83 85 86	1	dBA max	ECE Reg. 41	ECE Reg. 41	7.5 m				ECE Reg. 41		
Spain	< 80 cm ³ < 125 cm ³ < 350 cm ³ < 500 cm ³ > 500 cm ³	June 1, 1980	78 80 83 85 86	1	dBA max	ECE Reg. 41	ECE Reg. 41	7.5 m				ECE Reg. 41		
	< 80 cm ³ < 125 cm ³ < 350 cm ³ < 500 cm ³ > 500 cm ³	June 1, 1980	78 80 83 85 86	1	dBA max	ECE Reg. 41	ECE Reg. 41	7.5 m				ECE Reg. 41		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Motorcycles**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barriers	Remarks
									Domestic	Imports	Exports			
Belgium	2-wheeled: 2-stroke: 3 50-125 cm ³ > 125 cm ³ 4-stroke: 3 50-125 cm ³ 125-500 cm ³ > 500 cm ³ 3-wheeled: > 50 cm ³	Dec. 12, 1974	82 84 82 84 86 85	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.0 m				ECE Reg. 9		
Finland	2-wheeled: 2-stroke: 3 50-125 cm ³ > 125 cm ³ 4-stroke: 3 50-125 cm ³ 125-500 cm ³ > 500 cm ³ 3-wheeled: > 50 cm ³	Dec. 12, 1974	82 84 82 84 86 85 ^a	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.0 m				ECE Reg. 9		
Hungary	2-wheeled: 2-stroke: 3 50-125 cm ³ > 125 cm ³ 4-stroke: 3 50-125 cm ³ 125-500 cm ³ > 500 cm ³ 3-wheeled: > 50 cm ³	Dec. 12, 1974	82 84 82 84 86 85	1	dBA max	ECE Reg. 9	ECE Reg. 9	7.0 m				ECE Reg. 9		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Motorcycles**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Romania	2-wheeled: 2-stroke: 50-125 cm ³ > 125 cm ³ 4-stroke: 50-125 cm ³ 125-500 cm ³ > 500 cm ³ 3-wheeled: > 50 cm ³	Dec. 12, 1974	82 84 82 84 86 85	1	dB(A) max	ECE Reg. 9	ECE Reg. 9	7.0 m				ECE Reg. 9		
Yugoslavia	2-wheeled: 2-stroke: 50-125 cm ³ > 125 cm ³ 4-stroke: 50-125 cm ³ 125-500 cm ³ > 500 cm ³ 3-wheeled: > 50 cm ³	Dec. 12, 1974	82 84 82 84 86 85	1	dB(A) max	ECE Reg. 9	ECE Reg. 9	7.0 m				ECE Reg. 9		

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM
Mopeds

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan	Motor driven cycles	Domestic 4/1/79 Imports 4/1/81	75	0	L _{MAX} (FAST) NTE	Modified ISO/R362 for accel- eration National Procedure for cruise & Station- ary	Acceler- ation Cruise stationary	7.5 m to left for acceleration 7 m to left for cruise 20 m to rear for stationary	Reg. Applies	Reg. Applies	Reg. does not apply	Manufacturers test levels; submit records on prototypes; Ministry of Transport determine conformity on basis of records submitted and its own tests. Ministry issues type approval; manufacturers conduct spot checks; Ministry reviews data, conducts own spot checks; no non-conforming vehi- cles can be operated		Cruising 60% max power or 35 km/h 25 km/h for 1st class motor driven cycle (≤ 50 cc), whichever lower, Stationary 60% max power; Test Speeds & Gear Ratios Different to Outside Better with Actual Cruising Speeds, Noise Levels 44dB(A) Lower than with ISO/R 362
			70											
Netherlands	Max speed 40 km/h	4/21/76	73	Police control at 50 cm max 102; Planned for 7/1/81, 98	L _{MAX} (FAST) NTE	Netherlands Test Standard	Top Speed full throttle Stationary - alternate open & close throt- tle to pro- duce max engine speed	7 m FFRP 50 cm				Type Approval		No comparable ISO tests exist
			96											
	Max speed 20 km/h	4/21/76	67	Police con- trol at 50 cm max 102; planned for 7/1/81, 91; 11dB for conformity checks			Top Speed full throttle Stationary - alternate open & close throt- tle to pro- duce max engine speed	7m FFRP 50 cm				Type Approval		
			89											

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SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Mopeds

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U. S.	Moped type direct motorcycles	1/1/83	70	0	L-AMAX (FAST) NTE	EPA (based on SAE J331a)	75-80 kg payload, max speed, full open throttle passby in highest gear	15 m FERP	See Compliance Checks	Same as domestic	Regulation does not apply	Manufacturer or EPA tests, 1 sample of each vehicle configuration, Optional Selective En- forcement Audits, Inspection of Facilities and Reports, Recall, Cease to Distribute.		
Replacement exhaust systems must meet the same levels on same dates with same measurement procedures.														
Denmark	50 ccm power of 1 HK, max speed 30 km/h	2/20/69	76		L-A NTE	ISO/R 362 (1964) ISO/DIS 362. 2 (1980)		7.5 m				Type Approval		Test method same as suggested by E.T. WP 29
U. K.		1970	77	0	L-A NTE	BS 3425: (1966)	Average of 3 readings on noisest side, round ed down to next whole number	7.5 m				Offense to sell or use non-complying vehicle		Force of ISO/R 362 enable sample in use levels to be set with 3dBA test procedure correction factor over new vehicle levels
Norway	< 50 ccm 50-125 ccm > 125 ccm	1983	73	0	L-A NTE	EEC Test								
				1	dBA MAX	ISO/R 362 ECE Reg 9	Max speed							
Switzerland	moped, motorized bicycle	7/1/77 10/1/82 10/1/86	68 67 66	1 for new products	L-AMAX (FAST)	National Test procedure	Max speed pass-by	7.5 m	Type test by Government lab			Type Approval (Nat. level) & stationary test for in-use controls every 3 years (State level)		

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
West Germany	Bicycle type max. speed 25 km/h 40 km/h	1966	70 73	2	L _{A,max}	Substan- tially ISO R 362	Accelerated pass-by (wide-open throttle)	7.5 m	✓	✓				
	Motorcycle type max. speed 40 km/h		73											
	Bicycle type max. speed 25 km/h 50 km/h		70 72						✓	✓				
	Motorcycle type max. speed 50 km/h		72											

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM**
General Motor Vehicles

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Australia (Tasmania)						ADR 28 ADR 28A VENSAC	In-service station- ary					Type approval for new vehicles, owner brings to inspection station		
						ADR 28 ADR 28A						Offense to sell non-complying vehicles		
(Victoria)						ADR 28						Must comply before registration		
(Western Australia)						ADR 28	50% max speed for motor- cycles in neutral gear, 75% max power for all 4-wheel vehicles	0.5m from exhaust						

IDENTIFICATION OF PRODUCTS AND COUNTRIES/ORGANIZATIONS
WHERE NOISE REGULATION CURRENTLY EXISTS, IS UNDER DEVELOPMENT,
OR IS ANTICIPATED WITHIN FIVE YEARS

Product : Aircraft	Status by Countries/Organizations		
	Existing	Under Development	Anticipated
Helicopters		U.S., ICAO, U.K.	
Fixed Wing Aircraft	Denmark, U.K., Japan, Ireland, Norway, EEC, U.S., ICAO Switzerland, W. Germany		

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SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Helicopters

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.K.	Standards	will be	introduced when		formally	adopted	within	ICAO						
U.S.		Antici- pated 1981	Standards under development											
ICAO		Antici- pated 1981	Standards under development											

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS CONCERNING SOUND EMISSION FROM Fixed Wing Aircraft

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**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Fixed Wing Aircraft**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Japan	Turbojet	10/10/75	ICAO Annex 16 Ch. 2			ICAO annex 16, chapter 2 & 3, appen- dix 1 & 2			Reg. Applies	Reg. Applies	Reg. does not apply	Certificate of compliance issued by Ministry of Transport after inspection and confirmation of meeting levels; reinspection after repair or remodel that affects noise level. No aircraft can be operated without certificate of compliance with noise standard.		Applicable to all turbojet airplanes regardless of date of manufacture, except DC-8, B-707, B720, VC-10, TU-154, IL-62, GP880
		9/1/78	ICAO Annex 16 Ch. 3											
Ireland	Aircraft noise regulated under the				Air Navigation	(noise Certificates and Limitation) Order, 1976.								
Norway	Subsonic jets, propeller > 5700 kg				EPNdB max	ICAO annex 16, 3 Ed.						Noise certification of civil aircraft, new and in-use aircraft		
	propeller < 5700 kg													
West Germany	Propeller- driven airplanes ≤ 600 kg	1975	68		L _{A,max} (SLOW)	ICAO	Fly-over at max. power	300 m	✓			Type and single aircraft certification		Low-noise emission product at 8 dBA lower levels
	600 kg - 1500 kg		(lin. incr.)											
	1500 kg - 5700 kg		80											
	> 5700 kg Subsonic turbojet ≥ 5700 kg	1973	see ICAO Chapter 5		see ICAO Chapter 2, and EEC									

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Fixed Wing Aircraft**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
EEC	Subsonic jet, propeller <5700 kg				EPNdB	ICAO annex 16 ch. 2, 3, 5, 6						Type certification by manufacturers, enforcement by national authorities, no non-noise certificated subsonic jets can be added to national registers after 1/21/80, or light propeller planes after 6/21/80, no non-noise certificated planes >20000 kg can be operated after 12/3/86 unless modified to meet standard, or after 12/31/88 if to be replaced by a plane meeting standard		For new and in-use aircraft
United States FAR 36: Stage 2	> 272160 kg ≤ 34020 kg	12/1/69	108 93 (reduced by 5 EPNdB per halving of weight between extremes)		EPNdB	U.S. Based	Take-off	6500m from start of takeoff roll				Requires new design aircraft to be certificated to meet noise levels		Levels may be exceeded at 1 or 2 points if sum of exceedances not > 3 EPNdB, no exceedance

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SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Fixed Wing Aircraft

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.A. (cont.)	> 272160 kg	12/1/69	108		EPNdB		Approach	2000 m from threshold of runway						> 2 dPNdB, exceedances offset by reductions at other measur- ing points
	≤ 34020 kg		102 (reduced by 2 EPNdB per halving of weight between extremes)				Sideline	650 m from point where noise after liftoff is greatest						
FAR 36-1: Approach Test Conditions		12/1/69												
FAR 36-2: Noise Standards for Newly Produced Airplanes of Older Type Design		12/31/74	Stage 2		EPNdB									Requires com- pliance with noise levels of all turbo- jet subsonic aircraft of designs certi- ficated before 1969
FAR 91-112: Civil Aircraft Sonic Boom		4/27/73	no sonic booms over U.S.											

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Fixed Wing Aircraft

Country/ Organization	Product Class and Subclasses	Effective Date	Level	Tolerance	Description and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.A. (cont.) FAR 36-3: Acoustical Change Approvals		1/20/75												
FAR 36-4: Noise Standards for Pro- peller Driven Small Air- planes and Acoustical Change Pro- visions	< 5670 kg	2/7/75	Stage 2											
FAR 36-5: Noise type certifica- tion and Acoustical Change Approvals		1/24/77												
FAR 91-136: Phased Compliance with Part 36 Noise Limits by Turbojets with Maxi- mum weight greater than 75,000 lbs.	> 34020 kg	1/24/77										Set phased com- pliance schedule for all U.S. fleet not in foreign commerce to be brought into compliance with Stage 2 no matter what date of design or manufacture		Compliance by retrofit or replacement

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Fixed Wing Aircraft

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
USA (cont.) FAR 36-6; Modifications to Noise Test Provisions for Propeller Driven Small Air- planes		1/24/77												
FAR 36-7; Noise Level Limits and Acoustical Change Requirements for Subsonic Transport Category Large Air- planes and for Subsonic Turbojet Powered Air- planes		10/1/77												
FAR 91-134; Minimum Certificated Landing Flap Setting		1/28/77												Operator re- quired to use lower-than-max flap setting unless pilot determines that weather, runway, or other safety factors re- quire maximum

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Concerning Sound Emission From Fixed Wing Aircraft**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
USA (cont.) FAR 36-8: Stage 3	> 3 engines ≥ 385560 kg	5/5/75	106		EPNdB		Takeoff	6500 m from start of takeoff roll						In substantial conformity with modifications to standards recommended by ICAO, levels can be exceeded at 1 or 2 points if sum of exceedances is not > 3EPNdB, no exceedance > 2EPNdB, and exceedances are offset by reductions at other measuring points
	≤ 20263 kg		89 (reduced by 4EPNdB per halv- ing of weight between extremes)											
	3 engines ≥ 385560 kg		104											
	≤ 28657 kg		89 (reduced by 4EPNdB per halv- ing of weight)											
	< 3 engines ≥ 385560 kg		101											
	≤ 48195 kg		89 (reduced by 4EPNdB per halv- ing of weight)											

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Fixed Wing Aircraft**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
U.S.A. (continued)	≥2400075 kg		103		EPNdB		Sideline	450 m from point after liftoff where noise is greatest						
	≤35018 kg		94 (reduced by 2.56 EPNdB per halving of weight)											
	≥280007 kg		105		EPNdB		Approach	2000 m from threshold of runway						
	≤35018 kg		94 (reduced by 2.33 EPNdB per halving of weight)											
FAR 36-9; Aircraft Noise Measurement and Evaluation Specification Requirements		4/3/78												

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SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Fixed Wing Aircraft

Country/ Organization	Product Classes and Sub-classes	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
USA (cont) FAR 36-18 & FAR 91-153; those with Civil Super-flight time sonic Air- before planes, Noise 1/1/80 and Sonic Boom Require- ments	SST except those with Civil Super-flight time before 1/1/80	7/1/78	Stage 2											Operators of SST's prohibited, except over specified test routes, from conducting operations over speed of sound that might cause sonic booms
FAR 91-171; Operating Noise Limits for Certain Turbojet Airplanes Engaged in Domestic or Foreign Air Commerce in the United States		1/1/81 1/1/83 1/1/85												Aircraft whether of U.S. or foreign registry must meet at least Stage 2 noise levels in order to be operated in U.S. after effective dates

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Fixed Wing Aircraft**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
ICAO 3 Ed. Chapter 2	Subsonic jet prototype accepted be- fore 10/6/77 and derived versions with bypass ratio < 2 ≥ 272000 kg ≤ 34000 kg		108		EPNdB									Levels can be exceeded at 1 or 2 points but sum of excesses can not exceed 4 EPNdB (5 EPNdB for 4 engines), no point exceeded by more than 3 EPNdB, all excesses must be offset by reductions at other points
			102 (Varies with weight between extremes)				Sideline	650m from point on runway where noise is max during takeoff						
							Approach	2000m from runway threshold						
			108 93 (varies with weight between extremes)				Flyover	650m from start of roll						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Concerning Sound Emission From
Fixed Wing Aircraft**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
ICAO (cont.)	Derived versions with bypass ratios ≥ 2													
	≥ 400000 kg		106		EPNdB		Sideline	650 m						
	≤ 35000 kg		97 (varies with weight between extremes)											
	≤ 2 engines ≥ 325000 kg		104		EPNdB		Flyover	6500 m						
			93 (varies with weight)											
	3 engines ≥ 325000 kg		107		EPNdB		Flyover	6500 m						
			93 (varies with weight)											

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Fixed Wing Aircraft

Country/ Organization	Product Class and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
ICAO (continued)	≥ 4 engines ≥ 325000 kg		108 93 (varies with weight)		EPNdB		Flyover	6500 m						
	≥ 280000 kg ≤ 35000 kg		108 101 (varies with weight)		EPNdB		Flyover	6500 m						
	Subsonic jets prototype accepted after 10/6/77 ≥ 400000 kg ≤ 35000 kg		103 94 (varies with weight)		EPNdB		Sideline	450m from runway where noise is max during takeoff						Levels can be exceeded at 1 or 2 points but sum of excesses can not be > 3 EPNdB, no single excess can be > 2 EPNdB, and any excess must be offset by reductions at other points
Chapter 3														

ORIGINAL ENGLISH

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Fixed Wing Aircraft

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
ICAO (Continued)	2 engines or less ≥385000 kg		101 89 (varies with weight)		EPNdB		Flyover	6500 m from start of roll						
	3 engines ≥385000 kg		104 89 (varies with weight)		EPNdB		Flyover	6500 m						
	24 engines ≥385000 kg		106 89 (varies with weight)		EPNdB		Flyover	6500 m						
	≥280000 kg		105 98 (varies with weight)		EPNdB		Approach	2000 m from runway threshold						
Chapter 5	Propeller driven airplanes ≥5700 kg		96		EPNdB		Sideline	450 m from point of runway where takeoff noise is max						Levels can be exceeded at 1 or 2 points but sum of excesses can not be >3 EPNdB, any 1 excess can not be >2 EPNdB, any excesses must be offset by reductions at other points
	≤34000 kg		103 (varies with weight)											

SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
Fixed Wing Aircraft
CONCERNING SOUND EMISSION FROM

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
ICAO (continued)	≤ 34000 kg		89		EPNdB		Flyover	6500 m from start of roll						
			106 (varies with weight)											
	≤ 34000 kg		98		EPNdB		Approach	2000 m from runway threshold						
			105 (varies with weight)											
Chapter 6	Propeller driven ≤ 5700 kg													
	≥ 1500 kg ≤ 600 kg		80 68		dBA		Flyover, max con- tinuous power, stable speed, cruise config- uration	300 m +10m altitude, ±10° from vertical						

**SUMMARY OF NATIONAL REGULATORY SITUATION AND DRAFT REGULATIONS
CONCERNING SOUND EMISSION FROM Fixed Wing Aircraft**

Country/ Organization	Product Classes and Subclasses	Effective Date	Level	Tolerance	Descriptor and Type of Limit	Test Procedure	Operating Condition	Measurement Distance/ Acoustic Field	Administrative Procedures			Compliance Checks/ Enforcement Procedures	Potential Trade Barrier	Remarks
									Domestic	Imports	Exports			
Switzerland	Subsonic Jet Propeller	March 1978	←			ICAO Annex 16, Ch. 2, 3, 5, 6		↕	Type certification by manu- facturers			No non-noise certi- fied subsonic jet or propeller aircraft can be added to national register after 3/6/78, no non-noise certificated planes can be operated after 1/1/83 (light propeller driven aircraft or after 1/1/85 (sub- sonic jets)		